01698522

Fed. Drilling Permit

1/22

1698518

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Form 3160-3
(August 2007)

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☑ DRILL ☑ REENTER	5. Lease Serial No. FEE
1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone	6. If Indian, Allotee or Tribe Name N/A
2. Name of Operator Chevron USA Inc	7. If Unit or CA Agreement, Name and No. COC 47675X
3a. Address 100 Chevron Road Rangely, CO 81648 / 3b. Phone No. (include area code) 970-675-3842	8. Lease Name and Well No. UNION PACIFIC 48-29
4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 637' FNL & 1979' FEL (NW NE) Section 29, T2N, R102W, 6th PM At proposed prod. zone	9. API Well No. 05-103-06231
	10. Field and Pool, or Exploratory Rangely Weber Sand Unit
	11. Sec., T. R. M. or Blk. and Survey or Area NW NE) Section 29, T2N, R102W
14. Distance in miles and direction from nearest town or post office* W of Rangely on hwy 64 3 miles, N on Cty Road 2 miles, W on lease rd .7 miles	12. County or Parish Rio Blanco / 13. State CO

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 632'	16. No. of acres in lease Unit 19,143	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 870'	19. Proposed Depth 6645'	20. BLM/BIA Bond No. on file ES-0022
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5279'	22. Approximate date work will start* 08/01/2008	23. Estimated duration 3 weeks

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

OP.

25. Signature Diane L Peterson	Name (Printed/Typed) Diane L. Peterson	Date 04/17/2008
Title Technical Assistant Chevron Production		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

ACCEPTED FOR THE RECORD
BY: J. Neuman
DATE 11/19/08
WHITE RIVER FIELD OFFICE

2008 APR 21 AM 9:51
BUREAU OF LAND MANAGEMENT
GRAND JUNCTION, COLORADO

NINE POINT DRILLING PLAN

UNION PACIFIC 48-29

Rangely Weber Sand Unit

Re entry of P&A well
05-103-06231

Surface:
637' FNL & 1979' FEL (NW NE) Section 29, T2N, R102W, 6th PM

Rio Blanco County, CO

1. ESTIMATED FORMATION TOPS:

Mancos	**Surface**
Dakota	**3166'**
Morrison	**3261'**
Curtis	**3980'**
Entrada	**4039'**
Carmel	**4201'**
Navajo	**4243'**
Chinle	**4842'**
Shinarump	**4998'**
Moenkopi	**5056'**
Weber	**5727'**
TD *	**6645'**
PBTD	**6436'**

2. ESTIMATED DEPTHS OF TOP AND BOTTOM OF WATER, OIL, GAS, OR OTHER MINERAL BEARING FORMATIONS AND PLAN FOR PROTECTION:

Possible Aquifers: None

Oil: Probable in Weber @ 5524-6396'

Gas: Probable minor gas in Weber @ 5524' increasing to TD.

Protection of oil, gas, water, or other mineral bearing formations: Protection shall be accomplished by cementing surface casing back to the surface. Production casing will be cemented with a sufficient cement volume to attempt to bring cement back to surface. The minimum acceptable fill will be equal to a depth 500' (min) above the top of the Dakota.

3. PRESSURE CONTROL EQUIPMENT:

Maximum anticipated surface pressure is <3000 psi.

Pressure control equipment shall be in accordance with BLM minimum standards.

7 1/16" 3m x 11" 2m tubing head will be nippled on existing 11" 2m well head.

BOP stack will consist of 7 1/16" 3m double gate, annular preventer and mud cross with two 4" valves and two 2" valves. The blind rams will be located in the bottom set on the double gate. The choke and kill lines will be 2" or 3" bore. All equipment will be 3000 psi. [See schematic #9.]

Test procedure and frequency shall be in accordance with BLM minimum standards for 3000 psi equipment, per BLM Oil & Gas Order #2.

4. SUPPLEMENTAL DRILLING EQUIPMENT AND CASING INFORMATION:

Casing Information:

TYPE	TOP	BOT	LENGTH	DIAMETER	GRADE	WEIGHT	TOC	SACKS	YR_MON
CASED	0	40	40	16	UNKNOWN	65		75	9/7/1947
CASED	0	506	506	10 3/4	UNKNOWN	40.5		235	9/9/1947
CASED	0	5571	5571	7	J-55	23	2500		10/27/1947
CASED	5571	5729	158	7	N-80	23		1000	10/27/1947
LINER	5574	6444	870	5	N-80	18		250	9/12/1977

Drilling Equipment:

Drilling of the surface hole will be with a small rotary rig equipped to use air, fluid or a combination of both or with a conventional rotary equipment utilizing mud.

Drilling below surface casing sill be with conventional rotary equipment utilizing mud.

Cement Information "NO NEW CEMENT".

5. CIRCULATING MEDIUM AND MUD TYP:

All drilling will be done using a reverse circulating method and produced water. Maximum anticipated mud weight is 10 ppg.

No minimum amount of weight material will be required to be kept on location.

H2S and CO2 detector will be used at all times during drilling operation.

6. ANTICIPATED TYPE AND AMOUNT OF LOGGING, CORING, AND TESTING:

Logging:

Electric Logging: Cased Hole logs / gamma ray and porosity

Coring:

None planned.

Testing:

None planned.

7. EXPECTED BOTTOM HOLE PRESSURE AND ANY ANTICIPATED ABNORMAL PRESSURE, TEMPERATURES, OR OTHER HAZARDS (H_2S, STEAM, ETC.) AND ASSOCIATED CONTINGENCY PLANS:

Normal pressure gradient to top of Weber. Offset pressure history indicates that the pressure gradient in the Weber should be between a minimum of 0.32 psi/ft to a maximum of 0.50 psi/ft.

Maximum expected BHP @ TD: ~3350 psi

Maximum expected BHT @ TD: ~165^{o} F

Hydrogen Sulfide:

Hydrogen sulfide (H2S) gas exists in the Weber Formation within the Rangely Field. Concentrations vary across the Field (+/- 100-700 ppm) due to a long history of production in conjunction with water and CO2 injection.
Chevron's "**H2S Contingency Plan**" will be adhered to minimize any potential hazard.

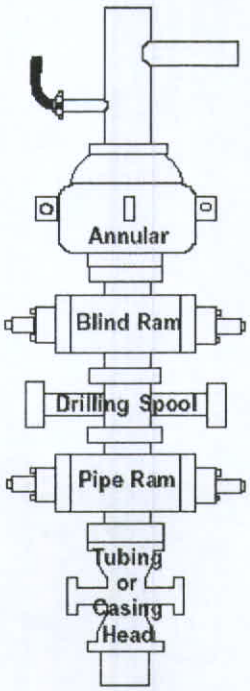
8. OTHER:

Procedure

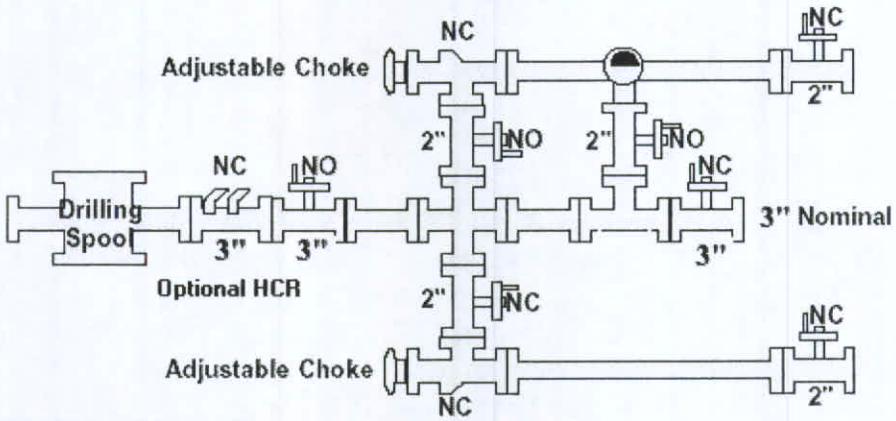
1) Notify Jaime Adkins of intent to re-enter. Re-claim wellhead & location. Set anchors.
2) MIRU workover rig & aux equipment - N/U 7 1 /16" 5K BOP.
3) RIH w/ 6 1/8" PDC bit - D/O surf cmt plug down to CICR @ 482' - pull bit - RIH w/ 6 1/8" shoe - cut over & pull CICR - RIH w/ 6 1/8" PDC bit - D/O cmt plug from 2803'-3113' - RIH to top of cmt plug @ 5387' - verify hard cmt for whipstock- circ hole clean
4) R/U PLS to run CCL strip on btm to verify depth of csg collar - D/O cmt to kick off with full joint
5) RIH & set whipstock on top of cmt. POOH. P/U starter mill, RIH & cut window on 7" csg. POOH, P/U finish mill & dress window. POOH, P/U 6-1/8" bit & tandem 6 1/8" string mills & drill 15' into new openhole - POOH L/D BHA.
6) RIH w/ 6 1/8" PDC bit & D.C.'s - drill new 6 1/8" hole from window to 6445' taking surveys as required by regulatory agency- circ clean - pull BHA.
7) RIH & set 7" RBP @ 1000' - land tubing on hanger- ND 7-1/16" BOP- NU 11" BOP. Retrieve 7" RBP, change rams to 5-1/2" & pressure test BOP's. Change rig to 6 lines in order to pick up 5-1/2" csg.
8) Run float equipment & 5 1/2" liner (Turned down collars) from TD to surf. Cement liner in place. Drop Casing Slips.
9) N/D 11" BOP - cut off 5 1/2" csg - N/U tbg head - N/U 7 1 /16" 5K BOP.
10) RIH w/ 4 3/4" bit & D.C.'s - D/O float collar & cmt within 10' of shoe - circ clean- pressure test casing to 1000psi. POOH.
11) Run GR/CBL/CCL from TD to surf - perf per Engineer detail.
12) RIH w/ treating pkr. Stimulate per Engineer detail. POOH w/ treating pkr.
13) RIH w/ 1 jt 2 7/8 FGW tailpipe, 5 1/2" Lockset PKR, 2 7/8 X 6' FGW Pup, On/Off tool w/ ext neck. Set PKR within 30' of top perf. RU PLS and set plug in profile. POOH LD work string. RIH with slick skirt, 1 jt 2 7/8 FGW, 5 1/2" PS1-X PKR, 2 7/8" NEW FL Inj
14) RD and move off. Wait for COGCC approval for injection.

9. BOP Schematic

Class III BOP Stack



Class III Choke Manifold



NO Normally Open
NC Normally Closed

970-675-3809

UP 48-29 Side Track

Cementing Plan, 5 1/2", 17 #/ft, K55 w/ turned down collars 5/1/2008

7" x 5 1/2"	0.0100	bbl/ft
Surface to 4000'	4000	ft
	39.93	bbls
	1.47	sxs/bbl
Lead Cement	59	Sxs "G" cement

Lead Cement:	"G" cmt + 1% D79 + 0.5% D112 + 0.2% D46 0.125 pps D130 + 20% D20 + 10% bwow D44			
Cu Ft / bbl	5.61	cuft/bbl	1.47	Sxs / Bbl
Yield, cu ft/Sx	3.82	cuft/sx		
Water Requirement, gps	24.00	gps		
Cement Weight, ppg:	11.00	ppg		

7" x 5 1/2"	0.0100	bbl/ft
4000' to 5386'	1386	ft
	13.84	bbls
	3.69	sxs/bbl
Tail Cement	51	Sxs "G" cement

Tail Cement:	"G" cmt + 10% D53 + 6% D20			
Cu Ft / bbl	5.61	cuft/bbl	3.69	Sxs / Bbl
Yield, cu ft/Sx	1.52	cuft/sx		
Water Requirement, gps	7.09	gps		
Cement Weight, ppg:	14.80	ppg		

6 1/8" x 5 1/2"	0.0071	bbl/ft
5386' to 6441' TD	1055	ft
	7.45	bbls
	3.69	sxs/bbl
Tail Cement	27	Sxs "G" cement

Lead Cement: "G" cmt + 1% D79 + 0.5% D112 + 0.2% D46 0.125 pps D130 + 20% D20 + 10% bwow D44
Tail Cement: "G" cmt + 10% D53 + 6% D20

Total Lead Cement	59 sacks	"G" cmt + 1% D79 + 0.5% D112 + 0.2% D46 0.125 pps D130 + 20% D20 + 10% bwow D44
Total Tail Cement	79 sacks	"G" cmt + 10% D53 + 6% D20
Total Cement	137 sacks	

5/12/2008 revised for clarification for:

#4 -- Power pole (SCADA pole) on Figure #3 to be removed before well work.
#7 -- See figure #3 and pit size indicated
Portable toilets serviced by Redi Services LLC.
#10 – corrected word 'seek' – to read 'seed'

LEASE NUMBER - FEE

12 (a-l) POINT SURFACE USE PLAN and
CERTIFYING STATEMENT per 3/7/2007 Federal Register Posting
Or
13 POINT SURFACE USE PLAN

FOR

OP.

UNION PACIFIC 48-29
05-103-06231

Re-entry of P&A well

LOCATED IN

RANGELY WEBER SAND UNIT
637' FNL & 1979' FEL (NW NE) Section 29, T2N, R102W, 6th PM

RIO BLANCO COUNTY, COLORADO

CHEVRON
UNION PACIFIC 48-29
LEGAL DESCRIPTION : 637' FNL & 1979' FEL (NW NE) Section 29, T2N, R102W, 6th PM

1.(a.) **EXISTING ROADS**

See attached Topographic Map "A" and "B".

To reach CHEVRON proposed UNION PACIFIC 48-29 location -
Proceed west out of Rangely, Colorado on Colorado State Highway 3 miles, turn NORTH on BLUE MNT HIWAY 2. miles, turn west on lease road 1 mile.

All of the improved surface roads in the area are maintained by Chevron or its subcontractors. This maintenance consists of some minor grade work for smoothing of road grades and for snow removal by road maintainers with dozer blades and other contractor's equipment as required.

2. (b.) **PLANNED ACCESS ROAD**

See Topographic Map "B".

The planned access road will be **directly** off existing lease road **20'x30'** . There are no fences on the property. Installing gates, cattle guards, or cutting fences will not be required. The terrain that is traversed by this road is relatively flat and is vegetated with sparse amounts of sagebrush and grasses. Turn outs will not be required.
Approval shall be requested to continue operations should the surface become saturated to a depth of three (3) inches. All permanent facilities placed on the location will be painted Carlsbad Canyon Brown (Fuller Brand Colorant 31293 or equivalent) to blend with the natural environment. The well cellar will be covered with steel grating and no hazards will exist for livestock or wildlife. Rehabilitation of the disturbed areas no longer needed for operation will meet the requirements the BLM.

3. (c.) **EXISTING WELLS**

See Topographic Map "C".

There are numerous wells within a one mile radius of this location. This is a long time established field.

4. (d.) **LOCATION OF EXISTING AND PROPOSED FACILITIES**

There are numerous facilities owned by Chevron within the Rangely Weber Sand Unit. No new facilities will be required for the production of this new well All facilities maps are on file with the BLM – Meeker office.
The power pole indicated on Figure #1 and the Addendum to Legal Plat is 175' from the wellhead site. The power line indicated on the Addendum to Legal Plat is buried.

5. (e.) **LOCATION OF AND TYPE OF WATER SUPPLY AND FUEL GAS**

Water to be used in the drilling of this well will be from existing injection line on location. Fresh water required for boilers and other needs will be trucked from Chevron's domestic water treatment plant. Diesel fuel for workover rig will be delivered as needed.
There will be no water well drilled on the location site.

6. (f.)**SOURCE OF CONSTRUCTION MATERIALS**

See "Figure #2"

Materials to be used in the re-arrangement of this location will be acquired during the re-arrangement. Any extra gravels will be acquired from local gravel pits, which are privately owned or leased from the Bureau of Land Management (BLM).

7. (g.) **METHODS FOR HANDLING WASTE DISPOSAL**

See Figure #3. A tank and pit on location will be used to collect any workover fluids. Fluids will be filtered of at the Main Water plant. Pit approximately 12' X 20'.

Trash will be confined in a covered container and hauled to an approved landfill.

A portable toilet will be supplied for human waste. Redi Services LLC, 235 County Rd 15, Meeker Colorado 970-878-4444 services toilets and removes portiable toilet waste.

8. (h.)**ANCILLARY FACILITIES**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. (i.) **WELL SITE LAYOUT**

See Figure #1 and "RIG LAYOUT" diagram

The White River Resource Area Manager shall be notified 24 hours in advance before any construction begins on the proposed location site.

10.(j.) **PLANS FOR RESTORATION OF SURFACE**

When all drilling and production activities have been completed, the location site will be reshaped to the original contour.

Any drainage re-routed during the construction activities shall be restored to their original line of flow as near as possible. Cuttings and drilling fluids will be buried in the reserve pit. Prior to burial of cutting and mud, any liquid oil or water will be trucked to the Recovery Plant.

The disturbed area not needed for well operation and access roads will be re-vegetated and rehabilitated per the remainder of this season.

The White River Resource Area Manager will be notified at least 24 hours prior to commencing reclamation work.

COMMON NAME	CULTIVAR	GENUS	SPECIES	97 RMP LBS PLS/ACRE	PERCENTAC
Annual Sunflower	VNS	Helianthus	annus	2	13%
Western Wheatgrass	Arriba	Agropyron	smithii	4	25%
Crested Wheatgrass	Nordan	Agropyron	cristatum	3	19%
Pubescent Wheatgrass	Luna	Agropyron	intermedium	4	25%
Russian Wildrye	Vinall	Psathyrostachys	junceus	3	19%

The seedbed will be prepared by disking following the natural contour. Drill seed on contour at a depth no greater than 1/2 inch. In areas that cannot be drilled, broadcast at double the seeding rate and harrow seed into soil. Certified seed will be used. Fall seeding must be completed after September 1, and prior to prolonged ground frost.

The access roads will be upgraded and maintained as necessary to prevent soil erosion, and accommodate year round traffic. Reshape areas unnecessary to operations, distribute topsoil, disk and seed all disturbed areas outside the work area according to the seed mixture chart. Perennial vegetation must be established. Additional work will be required in case of seeding failures, etc.1
When the well is abandoned, the location will be restored to approximately the original contours. During reclamation of the site, push the fill material into cuts and up over the back slope. Depressions will not be left that will trap water or form ponds. Distribute topsoil evenly over the location, and seed according to the seed mixture chart. The access road and location will be disked prior to seeding. Perennial vegetation must be established.
Pits will remain fenced with woven wire until covered. Netting will be installed over pits to prevent access by migratory birds until they are covered.
Overhead flagging will be installed over pits should oil accumulate or be discharged.
Clean up and rehabilitation operations will begin as soon as the well is completed and should be finished within 60 to 90 days after well completion.

The permit holder will treat noxious weeds associated with the project by using Best Management Practices identified in Appendix D of the White River RMP of 1997.

11.(k.) **SURFACE OWNERSHIP**

A check of the records indicates that the surface owner is by Merit Energy.

12. (I.) **OTHER INFORMATION**

a) The Chevron will contact either the petroleum engineer or petroleum engineering technician 24 hours prior to the following operations:

- construction of access road and well site
- spudding (including dry hole digger or rat hole rig)
- running and cementing of all casing strings
- pressure testing of BOPE or any casing string
- surface recleamation work.
- commencing completion operations.

b) Chevron will be responsible for informing all persons who are associated witht the project operations that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. During operations, if discoveries of any cultural remains, monuments or sites, or any object of antiquity subject to the Antiquities Act of June, 1906 (34 Stat. 225; 16 U.S.C. Secs 431-433), the Archaeological Resources Protection Act of 1979 (PL 96-95), and 43 CFR, Part 3, operations will immediately cease and will be reported directly to the Area Manager. In cases where salvage excavation is necessary, the cost of such excavation shall be borne by the Operator, unless otherwise agreed upon. There are no known archeological, historic, or cultural sites in the immediate area. Much of the Unit area, over the past ninety three years, has been subjected to surface disturbance by roads, pipelines, and other producing surface facilities, and the probability of finding any artfactual remains or architecture of archeological significance is remote. **An archeological study of the Rangely Unit area has been conducted and clearance given**. An archaeologist's report of federal land within the Unit boundary is on file with the BLM.

c) Pursuant to 43 CFR 10.4(g) Chevron will notify the authorized officer (AO), by telephone, with written confirmation, immediately upon the discovery of human remains, funerary items, scared objects, or objects of cultural patrimony. Further, pursuant to 43 CFR 10.4 (c) and (d), Chevron will stop activities in the vicinity of the discovery and protect it for 30 days or until notified to proceed by the authorized officer.

d) If paleontological materials (fossils) are uncovered during project activities, Chevron will immediately stop activities that might further disturb such materials, and contact the authorized officer (AO). The operator and the authorized officer will consult and determine the best option for avoiding or mitigating paleontological site damage.

e) An H_2S Contingency Plan for this field is on file with the BLM.

13. (or Stand alone attachment)

LESSEE'S OR OPERATOR'S REPRESENTATIVE and CERTIFICATION

Application for Permit to Drill
Certifying Statement

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in the APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S. C. 1001 for the filing of false statements.

Executed this Day: APRIL 15, 2008

Name: _____

Printed Name: Jeff Roedell

Position Title: Technical Team Leader

Address: 100 Chevron Road, Chevron Rd, Rangely CO 81648

Telephone: 970-675-3816

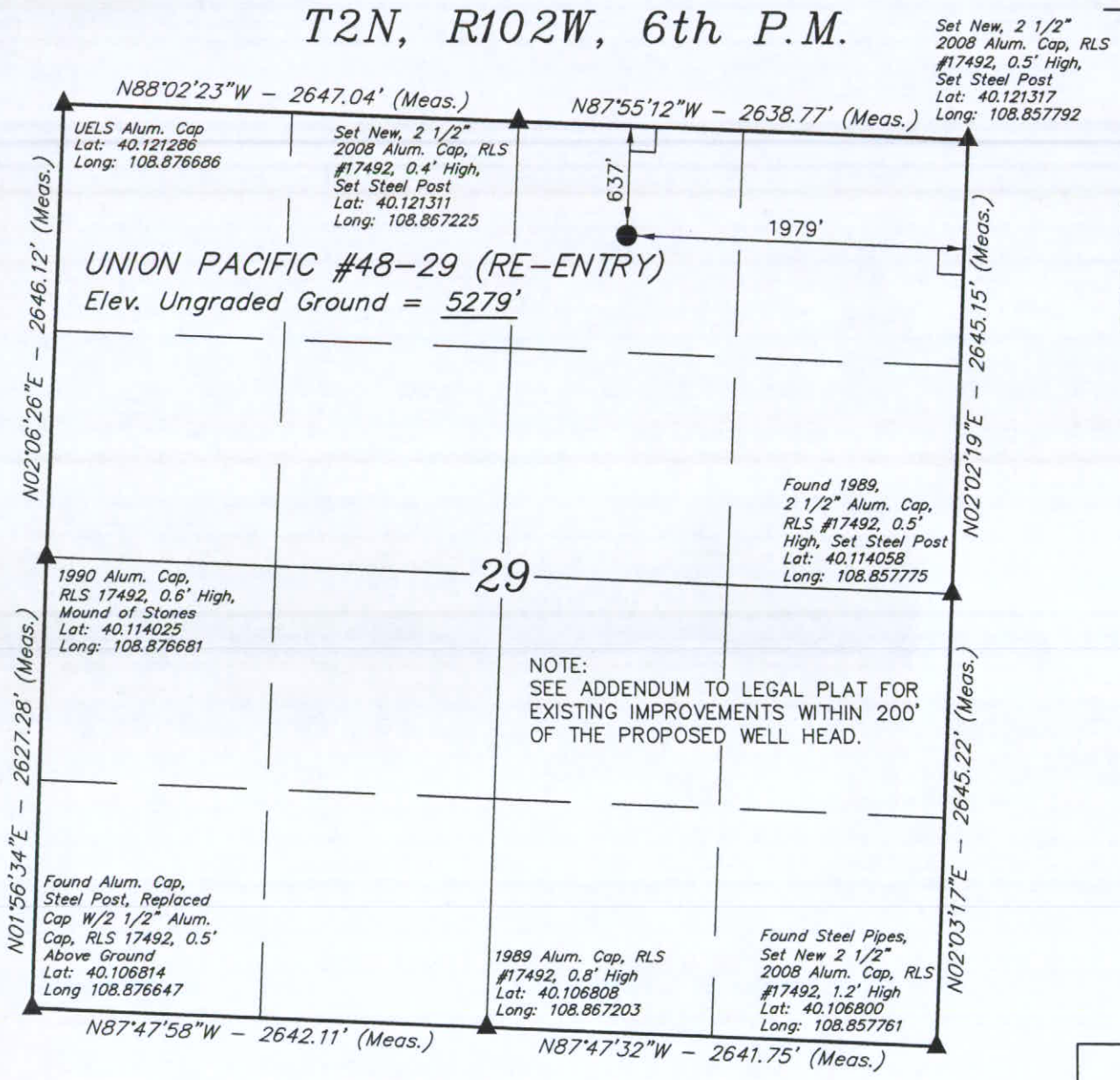
Field Representative: Luke Allred – Operations Supervisor

Address: 100 Chevron Rd, Rangely CO

Telephone: 970-675-3846-

CHEVRON U.S.A., INC.

Well location, UNION PACIFIC #48-29 (RE-ENTRY), located as shown in the NW 1/4 NE 1/4 of Section 29, T2N, R102W, 6th P.M. Rio Blanco County, Colorado.

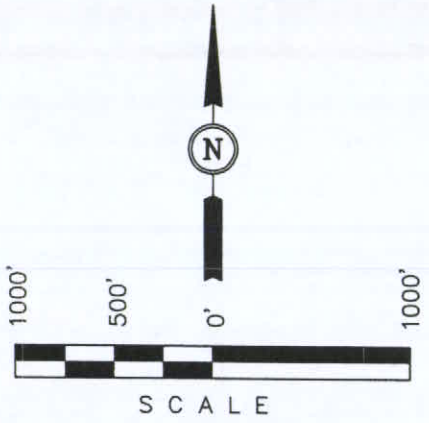


BASIS OF ELEVATION

GOLF TRIANGULATION STATION LOCATED IN THE SE 1/4 30, T2N, R102W, 6th P.M. TAKEN FROM THE BANTY POINT QUADRANGLE, COLORADO, RIO BLANCO, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5311 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



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COGCC

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 17492
STATE OF COLORADO

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 40°07'10.43" (40.119564)
LONGITUDE = 108°51'53.50" (108.864861)
(NAD 27)
LATITUDE = 40°07'10.53" (40.119592)
LONGITUDE = 108°51'51.11" (108.864197)

PDOP = 1.5

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	02-06-08	02-28-08
PARTY: J.F. C.C.	REFERENCES: G.L.O. PLAT	
WEATHER: COLD	FILE: CHEVRON U.S.A., INC.	

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MAY 14 2010
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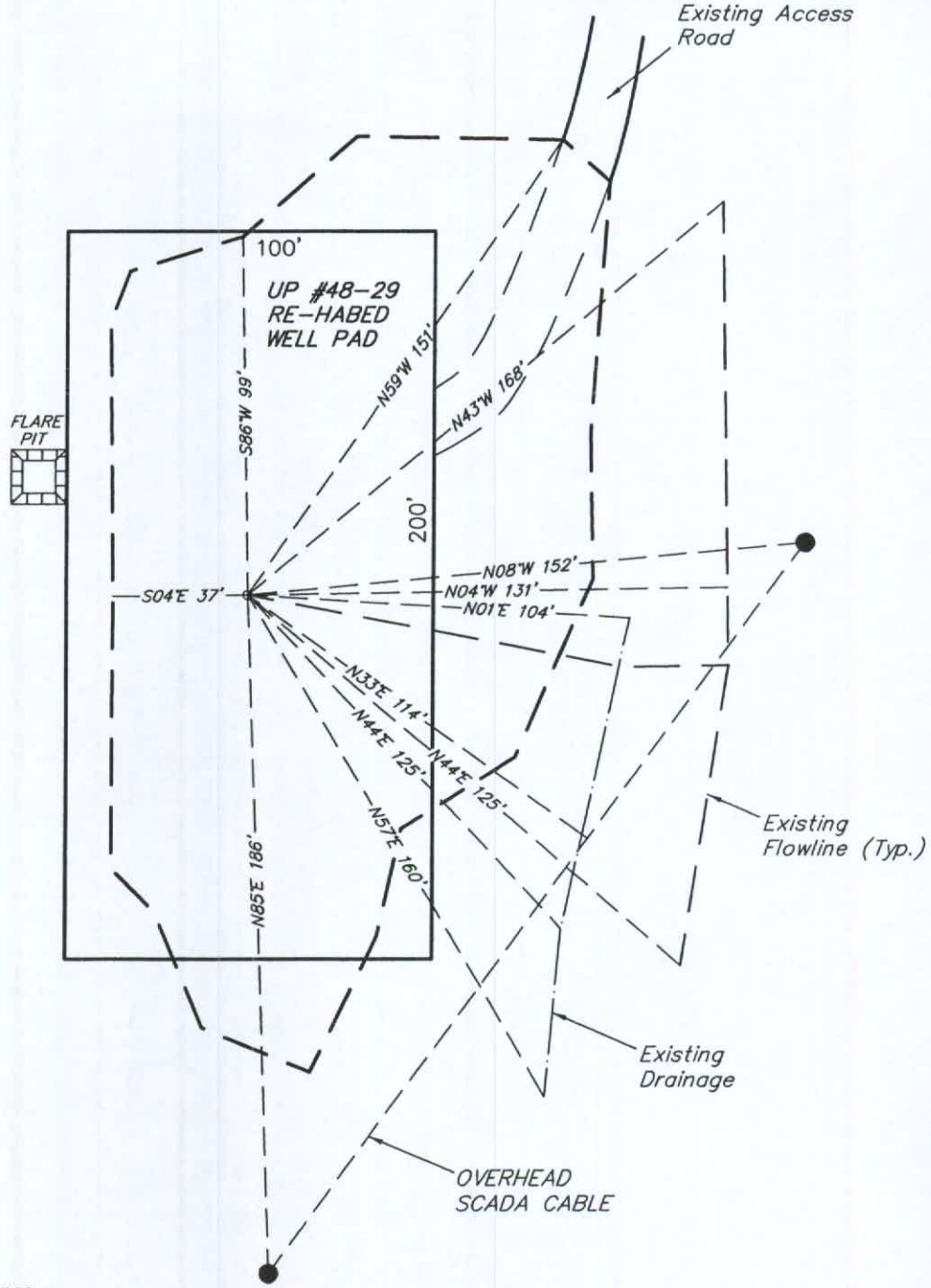
CHEVRON U.S.A., INC.

ADDENDUM TO LEGAL PLAT FOR

UNION PACIFIC #48-29 (RE-ENTRY)
SECTION 29, T2N, R102W, 6th P.M.
637' FNL 1979' FEL

SCALE: 1" = 50'
DATE: 02-28-08
Drawn By: C.C.

NOTE:
Flare Pit is to be Located a min. of 100' from the Well Head.



SURFACE USE OF LOCATION IS GRAZING, VEGETATION CONSISTS MAINLY OF NATIVE GRASSES.

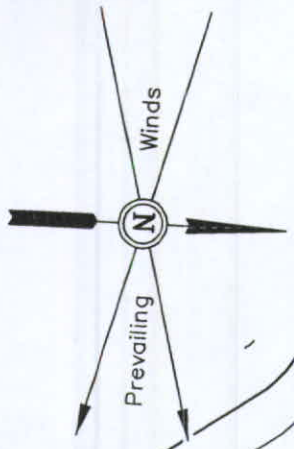
UINTAH ENGINEERING & LAND SURVEYING
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*

CHEVRON U.S.A., INC.

LOCATION LAYOUT FOR

UNION PACIFIC #48-29 (RE-ENTRY)
SECTION 29, T2N, R102W, 6th P.M.
637' FNL 1979' FEL

FIGURE #1



SCALE: 1" = 50'
DATE: 02-28-08
Drawn By: C.C.

Existing Access Road

F-9.1'
El. 67.1'

C-2.7'
El. 78.9'

Topsoil Stockpile

Sta. 2+00

UP #48-29
RE-HABED
WELL PAD

100'

FLARE PIT

C-2.8'
El. 79.0'

50'

50'

100'

Approx. Top of Cut Slope

Sta. 1+00

Approx. Toe of Fill Slope

Round Corners as needed

F-8.0'
El. 68.2'

F-2.2'
El. 74.0'

Sta. 0+00

Existing Flowline (Typ.)

Existing Drainage

OVERHEAD SCADA CABLE

NOTE:
Flare Pit is to be Located a min. of 100' from the Well Head.

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5279.0'

FINISHED GRADE ELEV. AT LOC. STAKE = 5276.2'

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CHEVRON U.S.A., INC.

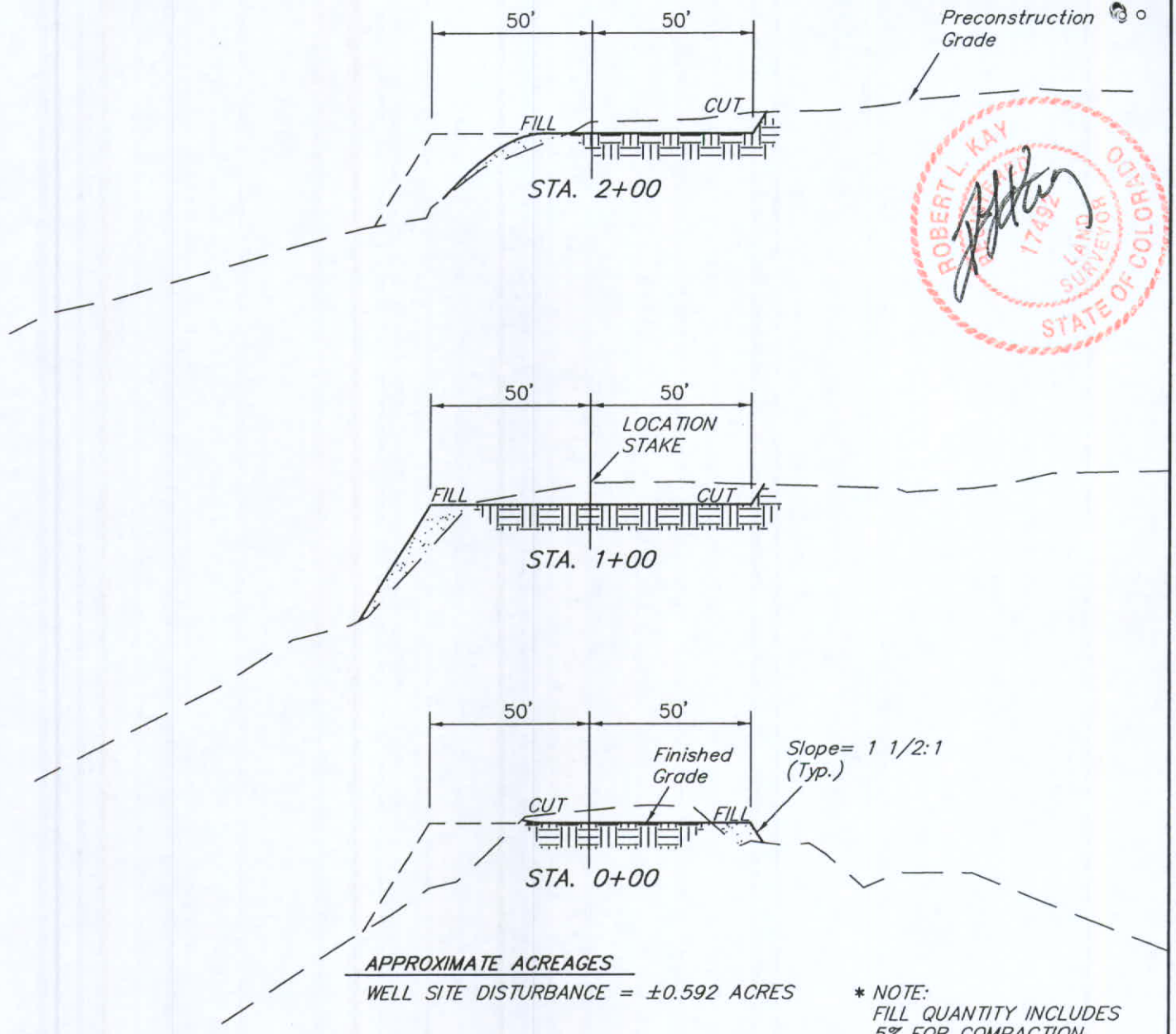
TYPICAL CROSS SECTIONS FOR

UNION PACIFIC #48-29 (RE-ENTRY)
SECTION 29, T2N, R102W, 6th P.M.
637' FNL 1979' FEL

FIGURE #2

1" = 20'
X-Section Scale
1" = 50'

DATE: 02-28-08
Drawn By: C.C.



APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ±0.592 ACRES

* *NOTE:*
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = *480* Cu. Yds.
Remaining Location = *930* Cu. Yds.

TOTAL CUT = *1,410* CU.YDS.
FILL = *930* CU.YDS.

EXCESS MATERIAL = *480* Cu. Yds.
Topsoil = *480* Cu. Yds.

EXCESS UNBALANCE (After Rehabilitation) = *0* Cu. Yds.

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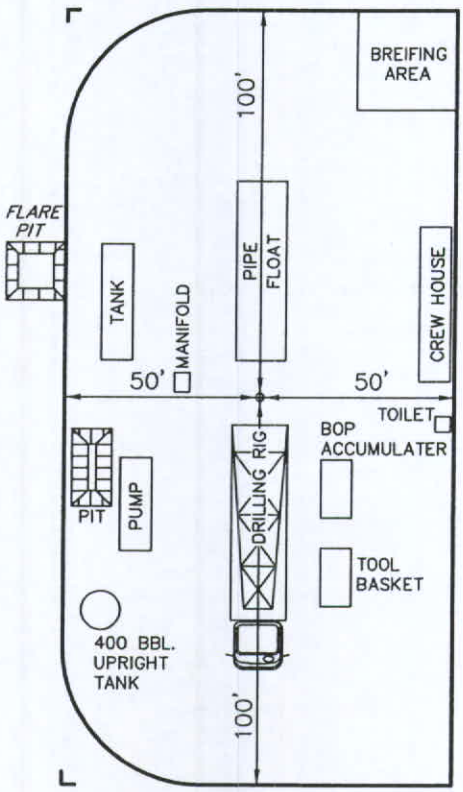
TYPICAL RIG LAYOUT FOR

UNION PACIFIC #48-29 (RE-ENTRY)
SECTION 29, T2N, R102W, 6th P.M.
637' FNL 1979' FEL

FIGURE #3

SCALE: 1" = 50'
DATE: 02-28-08
Drawn By: C.C.



NOTE:
Flare Pit is to be Located a min. of 100' from the Well Head.

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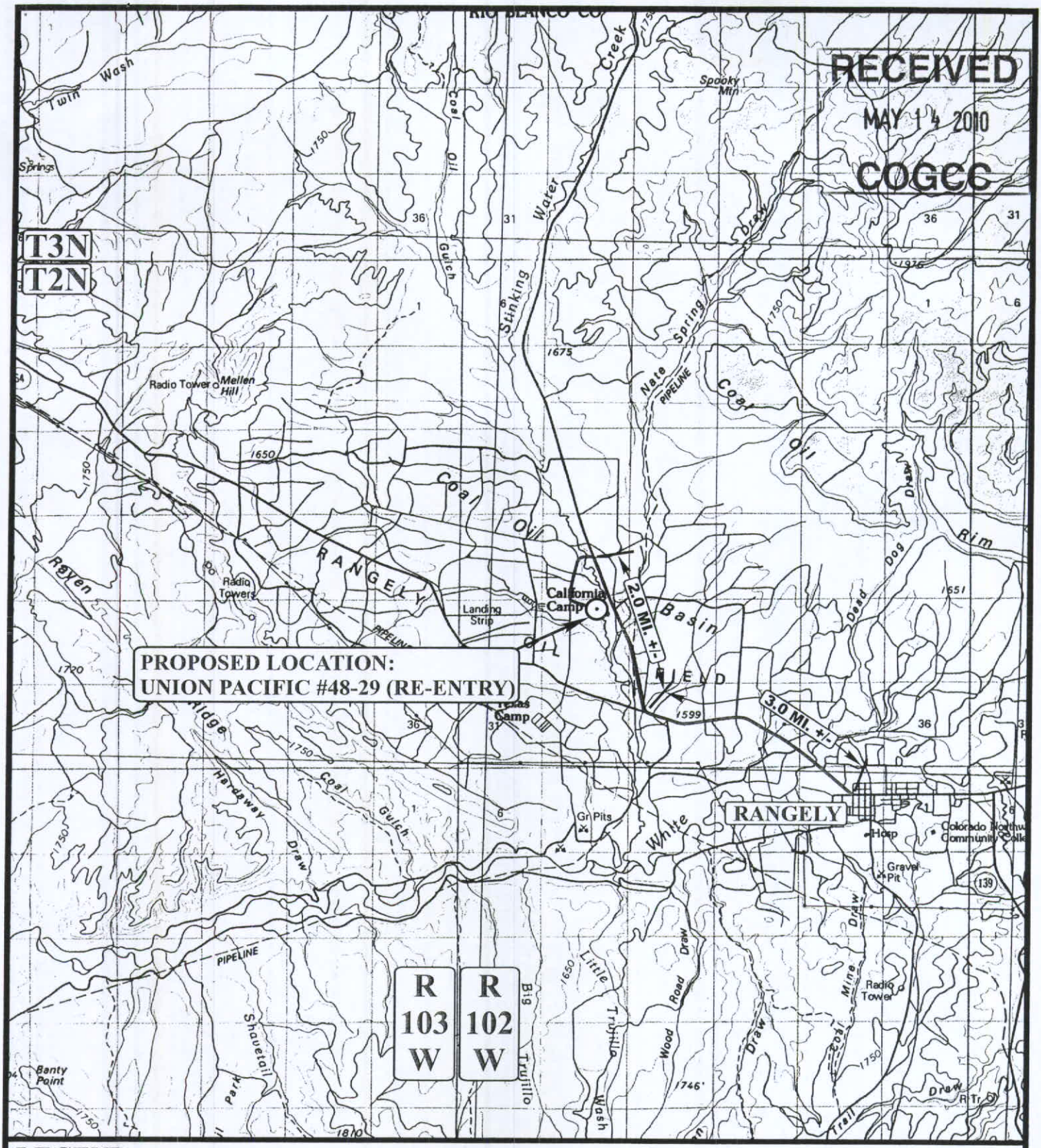


LEGEND:

⊙ PROPOSED LOCATION

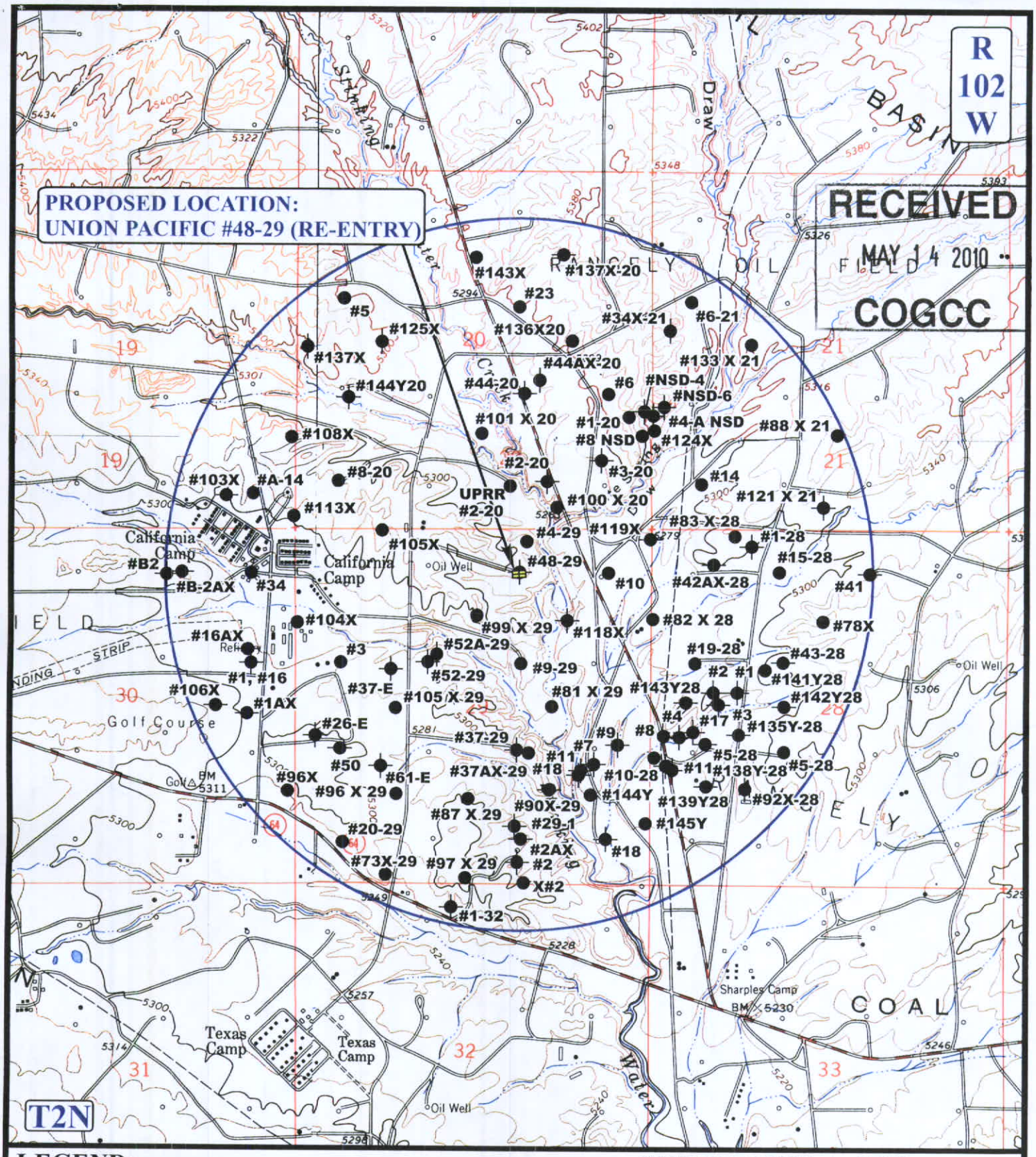
N

CHEVRON U.S.A., INC.

UNION PACIFIC #48-29 (RE-ENTRY)
SECTION 29, T2N, R102W, 6th P.M.
637' FNL 1979' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	02 MONTH	29 DAY	08 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.C.	REVISED: 00-00-00		



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

CHEVRON U.S.A., INC.

UNION PACIFIC #48-29 (RE-ENTRY)
SECTION 29, T2N, R102W, 6th P.M.
637' FNL 1979' FEL

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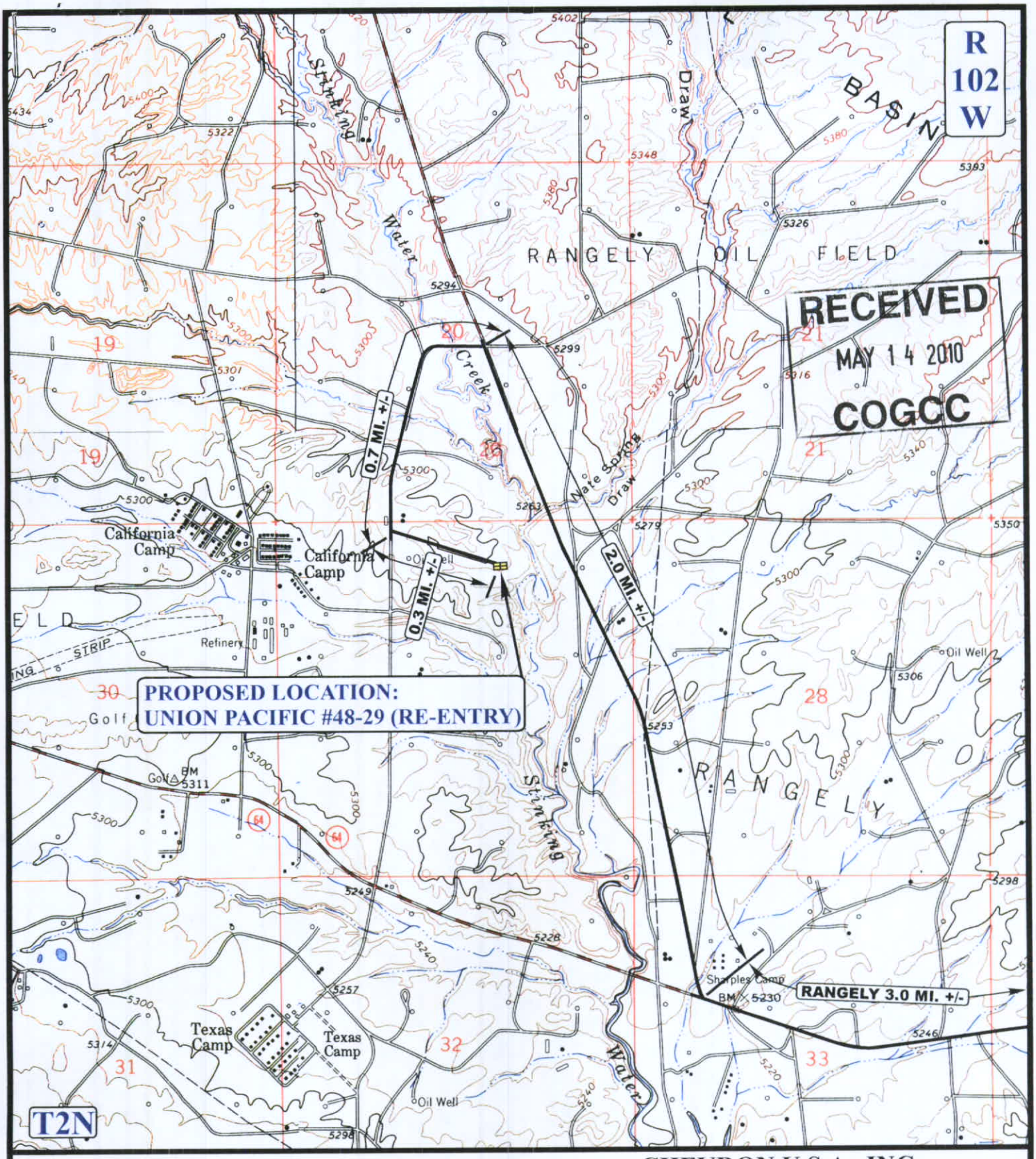
TOPOGRAPHIC MAP	02 MONTH	29 DAY	08 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: C.C.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

N

CHEVRON U.S.A., INC.

UNION PACIFIC #48-29 (RE-ENTRY)
SECTION 29, T2N, R102W, 6th P.M.
637' FNL 1979' FEL

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TOPOGRAPHIC MAP	02 MONTH	29 DAY	08 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.C.	REVISED: 00-00-00		

970-675-3809

UP 48-29 Side Track

Cementing Plan, 5 1/2", 17 #/ft, K55 w/ turned down collars 5/1/2008

7" x 5 1/2"	0.0100	bbl/ft
Surface to 4000'	4000	ft
	39.93	bbls
	1.47	sxs/bbl
Lead Cement	59	Sxs "G" cement

7" x 5 1/2"	0.0100	bbl/ft
4000' to 5386'	1386	ft
	13.84	bbls
	3.69	sxs/bbl
Tail Cement	51	Sxs "G" cement

6 1/8" x 5 1/2"	0.0071	bbl/ft
5386' to 6441' TD	1055	ft
	7.45	bbls
	3.69	sxs/bbl
Tail Cement	27	Sxs "G" cement

Lead Cement:	"G" cmt + 1% D79 + 0.5% D112 + 0.2% D46 0.125 pps D130 + 20% D20 + 10% bwow D44			
Cu Ft / bbl	5.61	cuft/bbl	1.47	Sxs / Bbl
Yield, cu ft/Sx	3.82	cuft/sx		
Water Requirement, gps	24.00	gps		
Cement Weight, ppg:	11.00	ppg		

Tail Cement:	"G" cmt + 10% D53 + 6% D20			
Cu Ft / bbl	5.61	cuft/bbl	3.69	Sxs / Bbl
Yield, cu ft/Sx	1.52	cuft/sx		
Water Requirement, gps	7.09	gps		
Cement Weight, ppg:	14.80	ppg		

Lead Cement: "G" cmt + 1% D79 + 0.5% D112 + 0.2% D46 0.125 pps D130 + 20% D20 + 10% bwow D44
Tail Cement: "G" cmt + 10% D53 + 6% D20

Total Lead Cement	59 sacks	"G" cmt + 1% D79 + 0.5% D112 + 0.2% D46 0.125 pps D130 + 20% D20 + 10% bwow D44
Total Tail Cement	79 sacks	"G" cmt + 10% D53 + 6% D20
Total Cement	137 sacks	

OP

CHEVRON U.S.A., INC.

UNION PACIFIC #48-29 (RE-ENTRY)

LOCATED IN RIO BLANCO COUNTY, COLORADO
SECTION 29, T2N, R102W, 6th P.M.

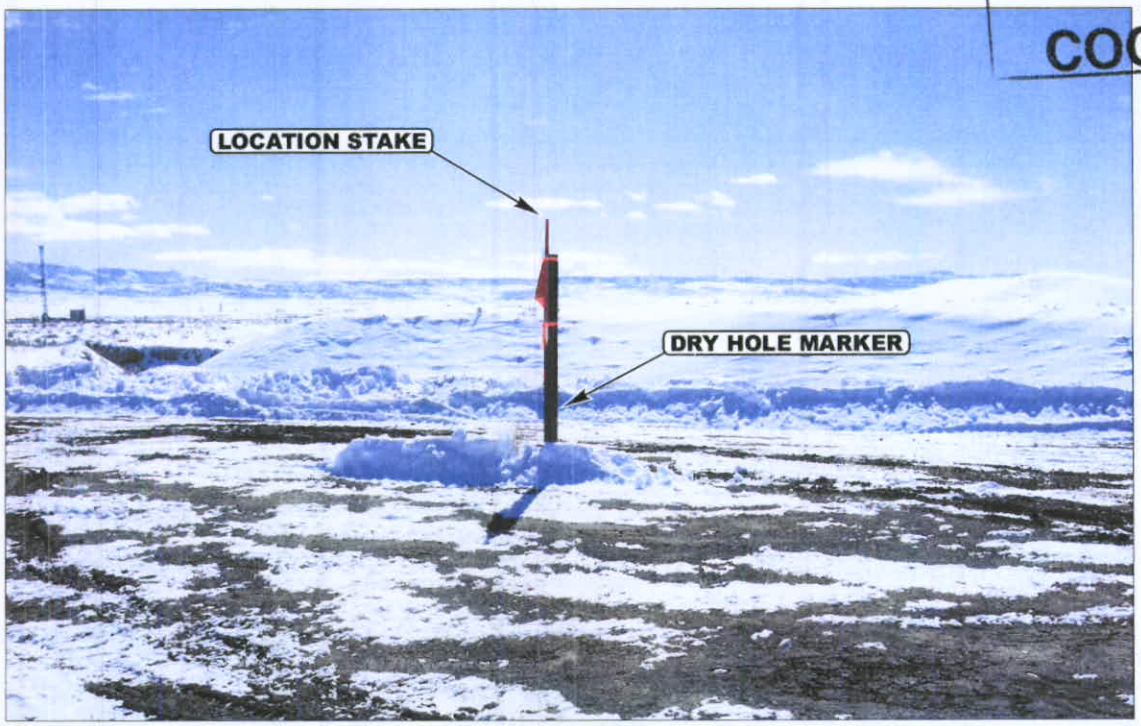

PHOTO: VIEW OF LOCATION STAKE **CAMERA ANGLE: SOUTHEASTERLY**

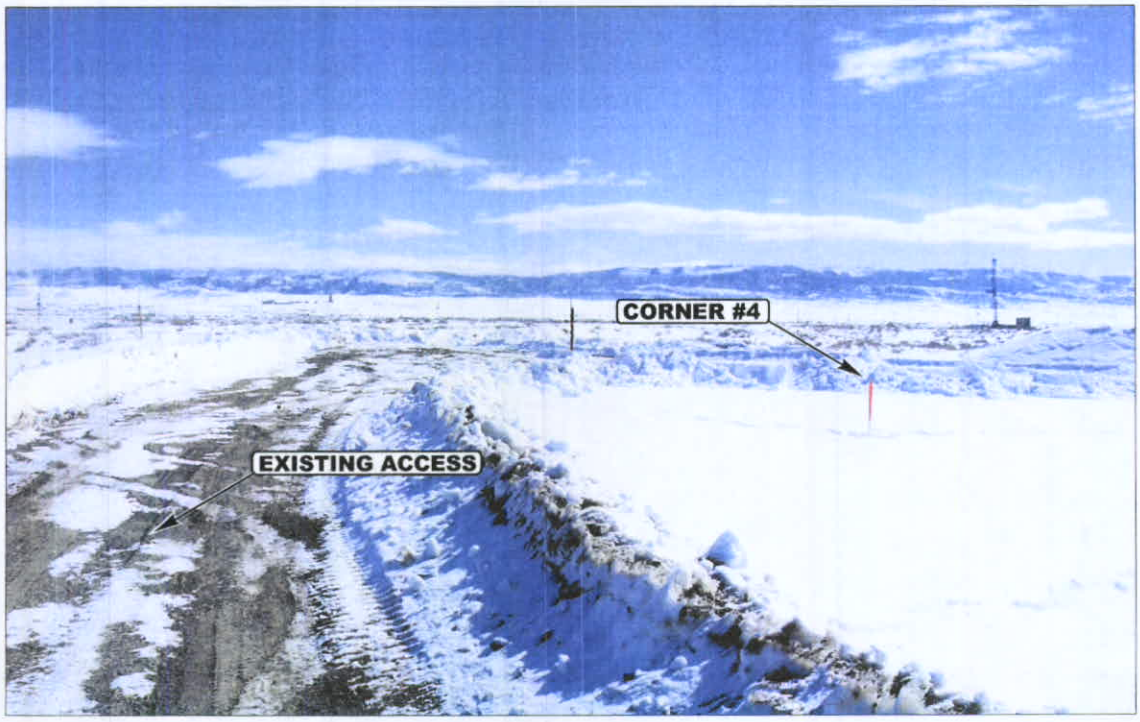

PHOTO: VIEW OF EXISTING ACCESS **CAMERA ANGLE: EASTERLY**

- Since 1964 -
Uintah Engineering & Land Surveying
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435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	02 MONTH	29 DAY	08 YEAR	PHOTO
TAKEN BY: J.F.	DRAWN BY: C.C.	REVISED: 00-00-00		