

Entek GRB LLC
Focus Ranch Unit Federal 3-1
API No. 05-107-06229
SHL: 2,101' FNL 1,612' FWL (SE/4 NW/4)
BHL: ±1,344' FNL ±857' FWL (QTR QTR)
Sec. 3 T11N R88W
Routt County, Colorado
Surface Ownership: Federal
Federal Mineral Lease: COC59491
Focus Ranch Federal Unit: COC63212X

SIDETRACK DRILLING PROGRAM – Revised May 2014

(All Drilling Procedures will be followed as Per Onshore Orders No. 1 and No. 2)

Please contact Kristen Stocks with Entek GRB LLC at, 307-200-1930, if there are any questions or concerns regarding this Drilling Program.

SURFACE ELEVATION – 7,662' (Current Elevation of Wellhead on Location)

SURFACE FORMATION – Lewis – Fresh water possible

1. ESTIMATED FORMATION TOPS – (Water, oil, gas and/or other mineral-bearing formations)

| Formation | TVD | MD | Geology |
|-------------------|---------|----|--|
| Lewis | Surface | | Preset Casing to 3752' |
| Almond | 1562' | | |
| Pioneer Coal | 1735' | | |
| Darling Coal | 2039' | | |
| Trout Creek | 2496' | | |
| Iles Coal system | 3696' | | |
| Delta Front Sheet | 3864' | | Sandstone |
| Hatfield | 4006' | | Sandstone |
| Cherokee Creek | 4345' | | Sandstone |
| Deep Creek | 4768' | | Sandstone |
| Mancos | 4960' | | Sandstone |
| Marapos Sand | 5454' | | Sandstone |
| Shannon | 5885' | | Shale, Sandstone, and Limestone (Target) |
| Lower Mancos | 6910' | | Sandstone and Siltstone |
| Niobrara | 7470' | | Shale, Sandstone, and Limestone (Target) |
| Carlisle Shale | 8381' | | Shale |
| Frontier | 8616' | | Sandstone (Target) |

| | | | |
|--------------------|---------------|---------------|--------------------|
| Frontier Sand | 8725' | | Sandstone (Target) |
| Total Depth | 8,950' | 9,623' | |

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS, OR MINERAL BEARING FORMATIONS

Estimated depths at which water, oil, gas or other mineral-bearing formations are expected to be encountered:

| Formation | TVD | MD | Formation Thickness | Lithology |
|------------------|------------|-----------|----------------------------|------------------|
| Mancos | 4960' | | 500' | Gas |
| Marapos Sand | 5454' | | 136' | Oil & Gas |
| Shannon | 5885' | | 35' | Oil & Gas |
| Lower Mancos | 6910' | | 564' | Gas |
| Niobrara | 7470' | | 900' | Oil & Gas |
| Carlisle Shale | 8381' | | 391' | Oil & Gas |
| Frontier | 8616' | | 156' | Oil & Gas |
| Frontier Sand | 8725' | | 28' | Oil & Gas |

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and protected.

3. BLOWOUT PREVENTION & PRESSURE CONTROL

- See attached blowout preventer diagram.

Blowout preventer (BOP) and related equipment (BOPE) will be installed, used, maintained, and tested in the manner necessary to assure well control and will be in place and operational prior to drilling into the open hole for this sidetrack operation. The BOP and related control equipment will be suitable for operations in those areas which are subject to sub-freezing conditions. The BOPE will be based on known or anticipated sub-surface pressures, geologic conditions, accepted engineering practice, and surface environment. The working pressure of all BOPE will exceed the anticipated surface pressure to which it may be subjected, assuming a partially evacuated hole with a pressure gradient of 0.22 psi/ft.

The choke manifold and accumulator will meet or exceed Colorado Oil and Gas Commission (COGCC) standards. All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and reduce vibration. The BOP equipment will be tested when initially installed, whenever any seal subject to test pressure is broken, after any repairs to the equipment and at 30-day intervals. Pipe rams, blind rams and annular preventer will be activated on each trip and weekly BOP drills will be conducted with each crew. All tests, maintenance, and BOP drills will be documented on rig "tower sheets".

BOP's and choke manifold will be installed and pressure tested before drilling out of surface casing (subsequent pressure test will be performed whenever pressure seals are broken), and then will be checked daily as to mechanical operating condition. BOP's will be pressure tested at least once every 30 days. Ram type preventers and related pressure control equipment will be pressure tested to related working pressure of the stack assembly, if a test plug is used. If a plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly, or 70% of the minimum internal yield of the casing,

whichever is less. Annular type preventers will be pressure tested to 50% of their working pressure. All casing strings will be pressure tested to 0.22 psi/ft or 1,500 psi, whichever is greater, not to exceed 70% of the internal yield.

A manual locking device (i.e. hand wheels) or automatic locking devices shall be installed on the system. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. The valve will be maintained the open position and will be closed only when the power source for the accumulator system is inoperative. Remote controls will be readily accessible to the driller.

Remote controls for the 3M system will be capable of closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valves (if so equipped).

The drilling rig has not been selected for this well. Selection will take place after approval of this application is granted. Manual and/or hydraulic controls will be in compliance with COGCC standards for 3,000 psi system.

Auxiliary Equipment:

- A. Upper Kelly cock; lower Kelly Cock will be installed while drilling and tested at the time of the BOP test.
- B. Inside BOP or stabbing valve with handle (available on the rig floor for all connections in use.)
- C. Safety valve(s) and subs to fit all string connections in use.
- D. Mud monitoring will be with a flow sensor, pit level indicator, and visual observation.

If expected pressures approach the working pressure of the system, one remote kill line tested to stack pressure will be utilized.

4. CASING PROGRAM

Current Casing:

| Hole Diameter | Casing Diameter | Setting Depth | Grade | Weight (lbs/ft) | Thread/Coupling | Condition |
|---------------|-----------------|---------------|-----------|-----------------|-----------------|-----------|
| | 20" | 0' – 80' | Conductor | | | |
| 17.5" | 13-3/8" | 0' – 644' | | 48 | ST&C | |
| 12-1/4" | 9-5/8" | 0' – 3,752' | | 36/40 | ST&C | |

Proposed Casing:

| Hole Diameter | Casing Diameter | Setting Depth | Grade | Weight (lbs/ft) | Thread/Coupling | Condition |
|---------------|-----------------|----------------|-------|-----------------|-----------------|-----------|
| 8-3/4" | 7" | 0' – 7,900' MD | P-110 | 26 | LT&C | New |
| 8-3/4" | 5.5" | 7,900' – to TD | P-110 | 17 | LT&C | New |

Design Criteria:

| Size | Grade | Weight (lbs/ft) | Thread/Coupling | Tension/Joint Strength | Burst | Collapse |
|--------|-------|-----------------|-----------------|------------------------|--------|----------|
| 7" | P-110 | 26 | LT&C | 693,000 | 9,950 | 6,230 |
| 5-1/2" | P-110 | 17 | LT&C | 445,000 | 10,640 | 7,480 |

5. CEMENT PROGRM

Cement calculated at gauge hole +25% excess. Actual volumes will be calculated per the caliper log with 25% excess.

| | | | |
|--------------|----------------------------|---|--|
| Lead Cement: | Halliburton Light Standard | = | Slurry Yield: 2.03 ft ³ /sk |
| Tail Cement: | ECONOCER (TM) SYSTEM | = | Slurry Yield: 1.26 ft ³ /sk |

Cement additives:

6. MUD PROGRAM

| | | | |
|--------|---|----|--|
| 3,752' | - | TD | OBM (** MI Swaco MegaDrill OBM or similar program) 75/25 OWR 25%CaCl ₂ Mud Weight (lg/gal) 8.9 – 9.2 Funnel Viscosity (sec/qt) 45 - 55 PV (cps) 8 - 12 YP (lb/100ft ²) 10 - 15 10 Sec. Gel (lb/100ft ²) 8 - 15 10 Min. Gel (lb/100ft ²) 11 - 22 30 Min. Gel (lb/100ft ²) 13 - 25 HTHP F.L. @ 250 deg F 10 - 15 OWR 75/25 Calcium Chloride (%) 25 ES (volts) 300 – 500 Low Gravity Solids (%) 4 - 6 |
|--------|---|----|--|

Sufficient mud materials will be onsite to maintain mud properties, control lost circulation and to contain a “kick” will be available on location at all times. There will be no pits on this location a closed loop system will be utilized for this drilling operation. The cuttings will be taken directly from the closed loop system, dried with dryer shakers and upon determination that they are suitable for trucking will be hauled to an appropriate, licensed disposal facility.

** Please see attached mud proposal for more details.

7. LOGGING, CORING TESTING PROGRAM

Logging: Triple Combo: TD to 5,000'
Sonic Scanner: TD to 5,000'
FMI logging will be determined upon TD of well
Coring: Sidewall cores will be determined after logging.
Testing: Drill Stem tests will be determined after logging and may be run on shows of interest.

8. GEOLOGIC CONDITIONS

Estimated bottom-hole pressure gradient: 0.43 psi/ft
Estimated maximum bottom-hole pressure: 3,870 psi
Abnormal pressures: None anticipated
Abnormal temperatures: None anticipated
Additional potential hazards: None anticipated

9. ADDITIONAL FACETS OF PROPOSED OPERATIONS

Anticipated Start Date: July 2014

Currently Set Casing Information:

Surface Casing: 13-3/8” 48 PPF J55 STC @ 644’ cemented to surface w/ 680 sxs Rockies lite
Intermediate Casing: 9-5/8” 36 & 40 ppf STC@ 3752’ cemented w/ 760 sxs lite and 470 sxs premium
Original KB: 7677’ (15’)
Original Hole: 8-3/4” hole drilled 3752’ to 8800’ DTD
Plugs: Surface Plug: 0-70’ (confirmed in 2013), CICR at 3693’ w/ cmt 3693’-3832’, Balance plug 6119’-6279’, Balance plug 6290’-6450’ (Please see attached WBD for more information)

Drilling/Sidetrack Plan:

MIRU Drilling Rig

RU Closed Loop Mud System – NO CUTTINGS OR RESERVE PIT

RU BOP's Consistent and Compliant with Onshore Order #2

Clean out surface plug and plug at 3693', Drill/Clean out approximately 300' plus into open hole to allow sufficient depth for kick off plug to be set.

Set +/- 500' of Kick Off Plug wait on cement 24 hours or per cement company recommendations, Dress plug and prepare for kick off.

Prepare hole with OBM for kick off into new drilling hole. RU Mud Loggers. (See attached mud plan for addl OBM properties.)

PU kick off directional assembly and TIH to top of dressed plug. Once sufficient kick off is achieved TOO H with existing directional assembly and PU assembly for 2.5 deg build. Build to 30 deg and 225 deg azimuth. Hold to TD per attached directional plan.

Directional Plan Annotations: (please see attached directional plan for more information)

| MD (U.S. ft.) | TVD (U.S. ft) | Local Coordinates +N/-S (us ft) | Local Coordinates +E/-W (us ft) | Additional Info |
|------------------|------------------|------------------------------------|------------------------------------|-----------------------|
| +/- 3,800.00 | +/- 3,800.00 | +/- 0.00 | +/- 0.00 | Start Build @ 2.5 deg |
| 5,000.00 | 4,945.92 | -217.12 | -217.12 | Start Hold @ 5000' MD |
| 9623.52 | 8,950.00 | -1,851.78 | -1,851.78 | TD @ 30 Deg |

Clean and condition hole for logs. Log hole.

PU 5.5" tail pipe with log determined ECP's and Sliding Sleeves for placement across Niobrara and below sections of well. PU DV tool and 7" 26# P-110 casing to run above Niobrara Formation. DV tool will be set at the top of the Niobrara formation and cement will be run 200' plus back into the existing casing with TOC @ approximately 3500'.

Planned on location personnel:

The housing that is contracted to be on location during the drilling phase will accommodate the following essential on location personnel:

2 Contract Company Representatives

Mud Logger

Mud Company Representative

Directional and MWD Personnel

Entek Company Representative

Crew and other rotational personnel will be housed offsite and will travel to and from location for each tour change

Completion:

The location pad will be sufficient size to accommodate all completion equipment activities and equipment. A string of 2 7/8" will be run as production tubing. A Sundry Notice (SN) will be submitted with a revised completion program, if warranted.