

WELL NAME: HSR-SALAZAR 6-20AX SPUD: 4/14/97
OPERATOR: HS Resources, Inc. TD: 4/20/97
OFFICE NUMBER: 970-330-0614 Sidetrack TD: 4/29/97 @ 7376'
LOCATION: SE/NW 20-3N-67W PERF: CD 5/3/97
Weld County, CO PERF: NB 10/28/99 Frac: NB 11/1/99
FAX daily to: DOWNLINE: NBRR 11/6/99
SSI # 970510
IF PROBLEMS WITH FAX TRANSMITTAL CONTACT - 1-303-296-3600

Nabors Rig # 968

4/15/97 Spud @ 19:30 hours on 4/14/97. The well reached a depth of 700' at 05:15 hours on 4/15/97. The hole was circulated for 45 minutes.
DEC: \$10663.00

4/16/97 Depth 1648'

Activity TOOH to run surface casing

The drill collars were stood back. 15 joints of 8-5/8" 24# 8rd, casing were run into the hole and landed at 679' KB. Cementers, Inc. pumped 20 barrels of preflush and 515 sacks of neat cement with 3% CaCl₂ and 1/4#/sack floccle. Cement was displaced with 42 barrels of water. Plug down at 1030 hours on 04/15/97. 5 bbls of cement were circulated to surface. Wait on cement - 8 hours. Pressure test BOP & TIH - 1.75 hours. Drilling 9.75 hours.

Surveys:	Depth	Degrees
	108	.5
	299	.5
	447	.25
	603	.5
	659	.5
	1140	.5
	1637	1.5

DEC: \$21220.00

4/17/97 Depth 3318'

Activity Drilling

Drilling-18.25 hours. Surveys-1.25 hours. Rig Service-.5. Trip for bit-4 hours.

Surveys:	Depth	Degrees
	2554	1.5
	3134	1.0
	3298	2.25

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4/18/97Depth 4404'

Activity Drilling

Drilling-19.5 hours. Surveys-1.75 hours. Rig Service-.75. Trip for cracked pipe-1.5 hours. Rig repair-.5. Teledrift surveys are being taken every third connection. If hole deviation starts increasing, surveys are taken every connection. Wireline surveys are being taken every 500'.

Surveys:	Depth	Degrees
	3298	2.25
	3831	1.75
	4232	.5

DEC: \$10663.00

4/19/97Depth 5394'

Activity Drilling

Drilling-14 hours. Surveys-1 hours. Rig Service-.5. Trip for bit-6.25 hours. Trip for hole in pipe-2.25. Teledrift surveys are being taken every third connection. If hole deviation starts increasing, surveys are taken every connection. Wireline surveys are being taken every 500'.

Surveys:	Depth	Degrees
	4664	1.75
	5157	.75

DEC: \$10663.00

4/20/97Depth 6605'

Activity Drilling

Drilling-15 hours. Surveys-1.5 hours. Rig Service-.25. Trip for hole in pipe-3 hours. Jet pits for mud up-1.25 hours. Work on rig-3 hours. Teledrift surveys are being taken every third connection. If hole deviation starts increasing, surveys are taken every connection. Wireline surveys are being taken every 500'.

Surveys:	Depth	Degrees
	5642	.50
	6090	1.00
	6453	.50

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4/21/97Depth 7245', TD @ 1900 on 04/20/97

Activity Logging

Drilling-11 hours. Surveys-1 hour. Short trip-1.25 hours. Circulate-3.25 hours. Work on rig-1 hour. TOO H to log-4.25. Logging-1.5 hours. Teledrift surveys are being taken every third connection. If hole deviation starts increasing, surveys are taken every connection. Wireline surveys are being taken every 500'.

Surveys:	Depth	Degrees
	6922	1.00
	7207	1.00

DEC: \$10663.00

4/22/97Depth 7245', TD, condition & WOO

Activity Condition hole & WOO

Logging-.75 hours. Trip in hole-4 hours. Circulate-2.75 hours. Run Gyro survey-4 hours. Make trip to LD drill collars and run in hole to TD with open ended drill pipe-6.75 hours. Circulate and wait on orders-5.75 hours.

DEC: \$14,125.00

4/23/97Depth: 5400' after setting cement plugs

Activity: Wait on cement

Circulate and wait on orders-11.5 hours. Work on pump-2 hours. Set cement plug from 7355' to 6800' with 175 sx of "G" cement with .1% R-3. Pull 14 stds of DP and set plug from 6000' to 5400' with 235 sx of "G" cement with .75% CD-31 (densified cement) mixed @ 17 ppg. Pull 10 stds DP & circulate while rigging up LD line.-3.25 hours. LD 93 joints of DP, Trip out of hole & wait on cement.-7.25 hours.

DEC: \$11,705.00

4/24/97Activity: Time drilling to kick off cement plug at 5656'

Wait on cement 9 hours. TIH 3.25 hours. Drill from 5565' (cement top) to 5652' to dress off cement .75 hours. Circulate bottoms up .5 hours. TOO H 2 hours. Wait on cement to get 24 hour set 2.5 hours. PU directional tools and trip in hole 4.75 hours. Orient directional tools and time drill 1.25 hours.

DEC: \$11,705.00

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4/25/97 Tripping to LD directional tools and set new cement plug. Time drilling 3.5 hours. Circulate .25 hours. TOOH 3.25 hours. Change AKO from 2.3° to 1.2° .75 hours. TIH 2.25 hours. Ream kick off curve 1.25 hours. Drilling from 5686' to 5748' (appeared to drill into old hole) 1.25 hours. WOC 1.5 hours. Time drill from 5748' - 5794' 5.25 hours. Repair air leak .5 hours. Time drill from 5794' - 5807' 1.25 hours. Survey and TOOH to set new plug 3 hours.

Surveys	Depth	Degrees	Direction
	5500'	.57	268.9
	5635'	.1	48
	5665'	.4	105.3
	5696'	.5	98.2
	5728'	.4	65.2
	5759'	.4	75.7
	5772'	.4	70.1

DEC: \$10,545.00

4/26/97 Tripping to PU directional tools @ 5505'

Finish TOOH. LD directional tools and TIH with open ended DP 3 hours. Circulate 2.75 hours. RU Halliburton to set kick off plug from 5800' to 5300' with 215 sacks of premium cement with 1% CFR-3 mixed at 17.5 ppg. Plug down at 12:30 hours on 4/25/97 .75 hours. LD 20 jts of DP and TOOH 4 hours. PU bit and TIH 2.5 hours. Circulate and WOC 5.5 hours. Tag cement and dress off top cement plug to 5505' 2.25 hours. Circulate .75 hours. TOOH to PU directional tools 2.5 hours.

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4/27/97 Directional drilling @ 5800'

Finish TOO, PU directional tools, and TIH 4.5 hours. Orient tool face .5 hours. Time drill from 5505' to 5556' 7.5 hours. TOO to change AKO setting 3.5 hours. Adjust AKO setting from 2.3° to 1.2 ° .5 hours. TIH 2.5 hours. Ream through the kick off curve .25 hours. Directional drill from 5556' to 5800' 4.75 hours.

Surveys:

Depth	Degrees	Direction
5521'	2.5	304.30
5552'	5.9	314.80
5583'	6.5	316.60
5615'	6.5	319.40
5645'	6.2	321.10
5676'	6.2	323.20
5707'	6.5	322.50
5738'	6.6	325.00
5769'	6.6	326.10

DEC: \$14030.00

4/28/97 Trip to change mud motor @ 6571'

Drilling from 5836' - 5991' 4.5 hours. Rig service .25 hours. Drilling from 5991' - 6301' 7 hours. Jet pits to mud up .75 hours. Drilling from 6301' - 6571' 8.75 hours. Trip to change mud motor (found hole in pipe.) 2.75 hours.

Mud: wt 8.9, vis 36, pH 9.0, wl 11

Surveys:

Depth	Degrees	Direction
5924'	8.3	324.60
6018'	10.30	326.40
6080'	11.60	327.10
6173'	11.80	323.90
6204'	11.3	324.30
6299'	10.10	329.90
6391'	11.10	339.40
6486'	12.40	337.70
6518'	12.1	338.70

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4/29/97 Activity: Drilling @ 7296'

24 hour footage: 725'

Time:	Hours:	Operation:
0600-0700	1	Tripping for new mud motor
0700-0915	2.25	Wait on mud motor
0915-1015	1	Adjust and scribe mud motor
1015-1145	1.5	TIH
1145-1215	.5	Orient mud motor
1215-1245	.5	Drilling from 6571-6584
1245-1300	.25	Install rotating head
1300-1930	6.5	Drilling from 6584-6925
1930-2000	.5	Rig Service
2000-0600	10	Drilling from 6925-7296
Mud:	Wt: 9.0#	Vis: 36 pH: 9.0 Wl: 9.6

Surveys:

Depth	Degrees	Direction
6549	12.20	339.10
6642	11.7	330.70
6736	13.2	328.20
6828	12.60	332.40
6921	13.4	338
7015	13	337
7111	11.5	338.7
7201	10.9	334.5
7262	10.5	336.2

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4/30/97 Running production casing @ 7375'

24 hour footage: 79'

Drilling from 7329' - 7375'. TD of 7375' @ 08:45 hours on 4/29/97 - 2-³/₄ hours.
Short trip - 1 hour. Circulate to condition hole 1.5 hours. TOOH to log 3 hours. Run
open hole logs with PSI (Loggers TD 7376'.) 3.5 hours. TIH - 3 hours. Circulate
1.5 hours. LDDP 6.75 hours. Start running production casing 1 hour.

Mud: wt 9.2, vis 40 pH 9.5, wl 10.5

Surveys:

Depth	Degrees	Direction
7294'	10.5	338.4
7326'	9.3	340.5
7340'	9.1	341.2

DEC: \$16,805.00

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5/01/97 Rig released

Time:	Hours:	Operation:
0600-0915	3.25	A total of 171 joints of 4-1/2" 11.6# New I-80 IPSCO casing were run into the hole and landed at 7333' with the insert at 7305'. A DV tool was installed at 946'.
0915-1045	1.5	Circulate
1045-1200	1.25	Halliburton pumped 20 bbls of Clay-treat water, 20 bbls of Mud Flush II, 150 sacks of "G" cement with 35% SSA-1, 18% salt, .8% Halad 322, 0.1% HR-5. Displaced with 113 bbls. of clay-fix water. The plug was pressured to 2500 psi where it held. The pressure was released and the opening bomb was dropped and the DV tool was opened. Halliburton pumped 10 bbls of water, 185 sacks of 50/50 pozmix cement w/2% gel and 100 sacks of premium cement. Displaced with 15 bbls of clay-fix water. The closing plug was pressured to 2000 psi. The plug was down at 1200 hours on 05/01/97.
1200-1300	1	Set slips and rig down. The rig was released at hours on 05/01/97.
Mud:	Wt: 9.2#	Vis: 40 pH: 9.5 Wl: 10.5
DEC: \$50194.00		

5/02/97 **The service rig was moved in and rigged up.** PU 3 7/8" mill tooth bit, bit sub, 4-3 1/8" drill collars and PU tbg in singles to tag cement above the DV tool at 840'. RU drilling equipment and drill thru DV tool at 901'. Finish picking up tbg to push DV tool to PBTB at 7300' KB. The well was shut in. SDFN
DEC: \$25,304.00

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5/03/97 The tubing was pulled and the drill collars were laid down. Schlumberger ran a cement bond log across the Codell/Niobrara formation with good bond noted throughout. The Niobrara cement top was found at 6600'. HS Testing pressure-tested the casing to 6000 psi and held it for 30 minutes. The Codell formation was perforated at 7227' to 7237' with 3 spf for 30 holes. A total of 30 were perforated using .35" holes size. A 2 3/8" Baker 1.78 "R" profile nipple, 1 joint of 2 3/8 tubing, a 2 3/8" Baker 1.81 "F" profile nipple, a Otis Uni-packer and 217 joints of tubing were run into the hole and set at 7207' KB. BJ circulated 30 bbls 2% KCL water down the tubing. Set Packer. BJ broke down the Codell with 30 bbls of 2% KCL water. The Codell broke down at 2150 psi. Pumped into the formation @ 5000 psi @ 5 bpm. ISDP-1920. 5 min-1650. 10 min-900. 15 min-590. Total load to recover is 60 bbls. The pressure was bled to the mud tank and recovered 3 bbls water. **RU to swab.** ITP 0; ICP 0; FTP 0; FCP 0; IFL surface; FFL 7050'; the well was swabbed to the mud tank for 2.5 hours and made 30 bw. A total of 30 bw (50%) have been recovered. The well was shut in. SDFN
DEC: \$24,313.00

5/05/97 SITP-60. SICP-0. The well was blown down and the swab rigged up. ITP 50; ICP 0; FTP 0; FCP 0; IFL 7000; FFL 7240'; the well was swabbed to the mud tank for 5 hours after the first hour, runs were made every hour with each run recovering no fluid. Swabbed a total of .5 bbls for a total of 30.5 bw. A total of 30.5 bw (51%) have been recovered. There is 29.5 bw left to recover. RU Cable and set a pressure survey in "R" nipple at 7207' KB. The pressure bomb was on bottom at 1440 on 05/05/97. Set a plug in the "F" nipple at 7174'. The plug was set in place at 1530 on 05/05/97. The tubing was then loaded with 28 bbls of 2% KCL water. The tubing and casing was shut in. A 10 day pressure build up will be run. **The service rig was rigged down and released.**
DEC: \$5786.00

5/13/97 **RU Cable** and pull plug and pressure bombs. **MIRU the service rig.** ND well head. NU BOP. Release packer and TOOH. LD packer and profile nipples. RU 2 3/8" notched collar, seating nipple, 217 joints of tubing, & 2 3/8" x 3' blast joint landed at 7177' KB. ND BOP. NU Well head. **The service rig was rigged down and released.**
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5/30/97 **MIRU Action completion rig.** TOH with tubing. **RU Schlumberger** and start in hole with CIBP. Plug sat down at 3395' and stuck there. Could not work free. Parted line at weak point and POH. Picked up overshot with grapple for 2.31" fishing neck and bumper sub. TIH with tubing. Latched onto fish. Fish started to go down but hung solid when pulling up. Worked fish could not come out. Sheared setting tool from CIBP and POH. Lay down setting tool and fishing tools. SDFN

5/31/97 Picked up 3 7/8" bit and TIH with tubing. Tagged CIBP at 3400' RU drilling and circulating equipment. Drilled up bridge plug and chased plug to bottom at 7262'. POH and laid down bit. SDFN

6/02/97 **RU Schlumberger.** Run a 3.87" gauge ring and junk basket to 7200'. Found 2 pieces of rubber from previous CIBP in junk basket. **Set CIBP at 7160'.** The Niobrara formation was perforated from 7018' to 7028 with 2 spf for a total of 21 holes. (.35 EHD) **RD Schlumberger.** PU 2 3/8" "R" profile nipple, 1 joint of tubing, 2 3/8" "F" profile nipple and 210 joints of tubing to land the "R" nipple at 6979' KB. The packer is set at 6947' KB. Swab 26 bbls of water to the mud tank with the fluid level dropping from surface to 6900'. RU BJ to breakdown the Niobrara formation with 30 bbls of 2% KCl water. Pressure the annulus to 1000 psi. Load the tubing with 24 bbls of 2% KCL water and pressured to 5300 psi before the formation broke. Pump 30 bbls 2% KCl water at 5000 psi at 3.6 bpm. ISIP-2770. 5 min-2400. 10 min-2180. 15 min-2000. Bled the pressure of tubing & annulus to mud tank with very little recovery. Have a total of 54 bbls to recover. **RU to swab.** ITP-0. ICP-0. IFL-surface. FFL-6900'. FTP-0. FCP-0. Wait 15 min make swab run with no recovery. Shut well in. SDFN. Today's recovery-24 bbls. Have 30 bbls left to recover.
DEC: \$7988.00

6/03/97 SITP-60. SICP-0. Blow well down to mud tank with no fluid recovery. RU to swab. IFL-6400'. Recovered 3 bbls of water on first run. Made another run FL @ 6750'. Recovered 1 bbl of water. Make hourly swab runs for 4 hours with no recovery. **RD & release service rig. RU Cable.** Install pressure bombs in "R" nipple at 1300 on 6-3-97. Install Baker plug in "F" nipple at 1345 on 06/03/97. **Rig down & release Cable.** Will leave bombs in hole until 6-17-97. Load tbg with 26 bbls of 2% KCl water.
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10/26/99 **Move in rig up Leed #84.** Shut down for night.

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DEC: \$428.00

10/27/99 Well pressures 600/400. Blow down well to flat tank. Nipple down wellhead, nipple up BOP, release packer, trip out of the hole tally in derrick 210 jts. 2 3/8 4.7 J-55 tubing, "R" nipple, 1st jt. 2 3/8 4.7 J-55, Guiberson Unipacker VI 4 1/2 X 2 3/8 packer. Shut well in shut down for night.

DEC: \$1859.00

CTD: \$2287.00

10/28/99 **Rig up PSI Testing**, trip in hole with 4 1/2" Otis Permalatch Bridge Plug, 209 jts. 2 3/8 4.7 J-55 tubing, set plug @ 6907', tested tubing to 6000#, no bad tubing, circulated gas from well. Tested 4 1/2 casing to 6000# for 30 minutes OK. **Rig down PSI**, recover bridge plug. Trip out of hole laydown tubing and bridge plug. **Rig up Schlumberger**, perf Niobrara 6964-70, 6976-82, 2 SPF, 24 holes. **Rig down Schlumberger**, nipple down BOP, nipple up frac valve. **Rig down Leed #84**.

DEC: \$5522.00

CTD: \$7809.00

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11/01/99 Well Name: SALAZAR 6-20 AX
Frac Date: 11/1/99
Frac Company: BJ
Formation: Niobrara
Stimulation Type: Frac
Method: 4 1/2" csg
Fluid: Vistar
Pad Volume (gals): 6,342
100 Mesh Fluid Volume 6,258
Spacer Volume (gals): 2,058
Sand Laden Volume (gals): 104,664
Total Treating Volume (gals): 119,322
Flush Volume (gals): 4,536
Total Load to Recover (Bbls): 2,949
100 Mesh Volume (#): 5,140
Sand Size: 20/40
Sand Volume (#): 317,680
Max Sand Concentration: 4
Formation Break Pressure: 3639
Formation Break Rate: 2.5
PreFrac ISIP: 3,274
Average Treating Pressure: 3,945
Average Treating Rate: 37.5
Max Treating Pressure: 4,643
PostFrac ISIP: 3,702
Forced Close Choke: Did not force close
5 Min Pressure: 3587
Frac Vendor Cost: \$76,682.00
Comments Pad to start of 2 ppg - flat net pressure slope. 2 ppg thru 4 ppg - slightly climbing net pressure slope.

11/2/99 Flowback continued on an 18/64" choke recovering 1,461 Bbls in 17 hours with ending casing pressure of 700 psi.

11/03/99 Flowback continued on an 18/64" choke recovering 264 bbls in 24 hours with ending casing pressure of 350 psi.

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- 11/06/99 **Salazar 6-20 AX - Turned down line at 8:45 AM on a 16/64 choke. CSG 800. This well is producing from the Niobrara formation. Well is producing up CSG. Area One Route 47.**
- 12/15/99 **MIRU S&S Rig #4.** Blow well down to flowback tank. Had to set flowback tank because the production tank was full. Flowed 80 bbls oil to blow down well. Pump 30 bbls of 2% KCL water with biocide to control well. ND frac valve. NU tbg head and BOP. PU 2 3/8" notched collar, seating nipple and PU 215 joints prod tbg. SI. SDFN.
DEC: \$3198.00
- 12/16/99 Finish PU tbg to tag sand fill at 7034'. Circulate sand clean to 7220'. LD tbg and land with 210 joints at 6939' (25' above Niobrara). Run 1.901" broach to seating nipple. ND BOP. NU well head. RU to swab. ITP-0. ICP-0. IFL-1000'. Swab for 4 hours recovering 90 bbls fluid. FTP-blow. FCP-0. FFL-2500'. Shut well in. **Rig down and release rig.**
DEC: \$2538.00
- 12/17/99 Salazar 6-20AX - Returned to production (After tubing was ran down hole) at 4:00 PM on a 24/64 choke. Tbg 600, Csg 600. Well is producing from the Niobrara formation. Area 1 Route 47.
- 2/19/00MIRU DJR hot oil truck. Hot oiled tubing and flowline. RDMO. Dropped standing valve and plunger. SIW/TBP.
Cost : 170.00
- 2/03/01MIRU H.S. Swab rig. ITP 0; ICP 140; Unable to get sinker bar through tight spot in tubing at the slips. RDMO. Note: this well has been shut in and is losing pressure on the casing.
Cost 250