12-442

OCD-HOBBS

Form 3160-3
(August 2007)

HOBBS OCD

MAY 10 2012

RECEIVED

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. NMNM-108973
	6. If Indian, Allotee or Tribe Name N/A
	7 If Unit or CA Agreement, Name and No. CA APPLN. FILED W/ APD
1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone	8. Lease Name and Well No. HARRIER 35 FEDERAL.COM 1H <392147
2. Name of Operator VPR OPERATING LLC <260917>	9. API Well No. 30-025- 40572
3a Address 1406 CAMP CRAFT ROAD, SUITE 106 AUSTIN, TX 78746 / 3b. Phone No. (include area code) 512 327-8776	10. Field and Pool, or Exploratory WILDCAT; BONE SPRING <97903>
4. Location of Well (Report location clearly and in accordance with any State requirements *) At surface 1980' FNL & 1500' FEL 35-T25S-R32E At proposed prod. zone 1980' FNL & 2310' FEL 34-T25S-R32E	11. Sec., T. R. M. or Blk. and Survey or Area SWNE 35-25S-32E NMPM = SHL SWNE 34-25S-32E NMPM = BHL
14. Distance in miles and direction from nearest town or post office* 26 AIR MILES WSW OF JAL, NM	12. County or Parish LEA / 13. State NM

15. Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig. unit line, if any) 1500'	16. No. of acres in lease 1,160	17. Spacing Unit dedicated to this well SWNE & S2NW4 35-25S-32E NMPM S2NE4 34-25S-32E NMPM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1320' (P&A)	19. Proposed Depth 10,000' TVD & 15,794' MD PILOT TD 12,200'	20. BLM/BIA Bond No on file NMB000600
21 Elevations (Show whether DF, KDB, RT, GL, etc.) 3,363' UNGRADED	22. Approximate date work will start* 03/31/2012	23. Estimated duration 8-9 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

25. Signature BWood	Name (Printed/Typed) BRIAN WOOD (505 466-8120)	Date 03/28/2012
Title CONSULTANT	(FAX 505 466-9682)	
Approved by (Signature) /s/ James Stovall	Name (Printed/Typed)	Date MAY 09 2012
Title FIELD MANAGER	Office CARLSBAD FIELD 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.

APPROVAL FOR TWO YEARS

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)

05/15/12

Carlsbad Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

MAY 16 2012

VPR Operating LLC
Harrier 35 Federal Com 1H
SHL: 1980' FNL & 1500' FEL Section 35
BHL: 1980' FNL & 2310' FEL Section 34
T. 25 S., R. 32 E., Lea County, NM

Drilling Plan

1. Estimated Tops of Geologic Markers

Name	Depth	Water/Mineral
Quaternary	0'	Fresh Water
Rustler	740'	Fresh Water
Top Salt	1,100'	
Base Salt	4,400'	
Top Lamar	4,620'	
Base Lamar	4,670'	
Bell Canyon	4,670'	Oil
Cherry Canyon	5,850'	Oil
Brushy Canyon	7,550'	Oil
Bone Spring	8,820'	Oil
Upper Avalon Shale	8,830'	Oil
Middle Avalon Shale	9,020'	Oil
Lower Avalon Shale	9,400'	Oil
1st Bone Spring Sand	9,830'	Oil
2nd Bone Spring Sand	10,470'	Oil
3rd Bone Spring Sand	11,470'	Oil
Wolfcamp	11,970'	
TD Pilot Hole	12,200'	
MD (TVD 10,000')	15,794'	

2. Possible Mineral and Water Bearing Formations

Fresh water will be protected by setting surface casing a minimum of 25' into the Rustler. Depth to ground water per the Office of the State Engineer (PRRC Mapping Portal); there is one record in the area to the west of our location in section 32 of 25S 32E that reports depth to ground water is 290'.

This well is prospective for oil and gas from the top of the Delaware to the base of the 3rd Bone Spring sand.

3. Pressure control Equipment

A 13-5/8" 5000 psi working pressure BOP consisting of one set of blind rams, one set of pipe rams and a 5000 psi annular type preventer will be utilized. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system will be installed. A rotating head will be used below 5,465'. A I.B.O.P. will utilized as part of the Top Drive maintained in operable condition. A drill string safety valve in

the open position will be available on the rig floor. Mud gas separator will be available if drilling in H2S areas.

VPR Operating requests a variance for Pinpoint Drilling, rig #12 to use a co-flex line between the BOP and choke manifold for this well. The manufacturer of the line is MSM and the serial number of the line is 1UAAP5L111/04503946. The co-flex is 44' long with 4 1/16" 5k psi flanges, has a 5k psi wp rating, and has anchors at both ends. The co-flex will be tested with the other BOPE equipment to Onshore Order #2 requirements.

See COA

BOP unit will be hydraulically operated. BOP will be nipped up and operated at least once a day while drilling. The blind rams will be operated when out of the hole during trips. No abnormal pressure or temperature is expected. From the base of the 13 3/8" surface pipe to TD, the well will be equipped with a 5M BOP stack system with 3M rotating head.

Before drilling out of 13 3/8" surface pipe the ram preventers will be tested to 250 psi low and 3000 psi high by an independent service company. The annular preventer will be tested to 250 psi low and 1500 psi high. Before drilling out of intermediate pipe the ram preventers will be tested to 250 psi low and 5000 psi high by an independent service company. The annular preventer will be tested to 250 psi low and 2500 psi high. Choke manifold and associated valves will be tested to 5,000 psi high and 250 psi low. A Coflex (specs attached) line will be utilized from the B.O.P stack to the choke manifold and will be tested to 5,000 psi high and 250 psi low. An electro-hydraulic choke (Super Choke) Unit will also be utilized on choke manifold.

4. Casing & Cement

Yield used 0.94

After setting surface and intermediate casing, VPR plans to drill a pilot hole to a depth of 12,200' and log the hole. VPR will then set an isolation cement plug from 12,200 – 11,300' consisting of 400 sacks Class H +.0.4%PF65 + 0.5% PF13. A kick-off plug will then be set from 8,700'--9,400'. This plug will consist of 400 sacks Class H + 0.4% PF65 + 0.4% PF13. Density = 17.5, yield = 0.94, and water = 3.37. Excess over the open hole = 25%. Excess in the cased hole = 10%.

See COA

See COA

VPR will then dress off the cement and kick off an 8-3/4" lateral at 9,283', build an 8°/100' curve to an inclination of 90° landing at 10,000' tvd, and drill horizontally to a TD of 15,794' MD. VPR will then run 5-1/2" from 0 - 15,794' and cement to at least 4,400' (i. e., tie back into 9 5/8" intermediate casing with at least 200' overlap).

Casing design factors: collapse = 1.125, burst = 1.125, and tension = 1.6

The casing program will be:

Hole Size	O. D.	lb/ft	Grade	Age	Collar	Range
20.0"		conductor				0' - 40'
17.5"	13.375"	54.5	J-55	New	STC	0' - 1,~~000~~ 850'
12.25"	9.625"	40	J-55	New	LTC	0' - 4,635'
8.75"	5.5"	20	HCP-110	New	LTC	0' – 9,100'
8.75"	5.5"	20	HCP-110	New	BTC	9,100' – 15,794

If hole conditions require, then an alternate hole and casing design described below will be used:

Hole Size	O. D.	lb/ft	Grade	Age	Collar	Range
20.0"		conductor				0' - 40'
17.5"	13.375"	54.5	J-55	New	STC	0' - 1,~~000~~ 850'
12.25"	9.625"	40	J-55	New	LTC	0' - 4,635'
Drilling liner, if required:						
8.75"	7.0"	29	P-110	New	UFL	4,435' – 10,409"
(minimum 200' tie back)						
Long string:						
6.125"	4.5"	11.60	HCP-110	New	LTC	0' – 9100'
6.125"	4.5"	11.60	HCP-110	New	BTC	9100' - 15794

Surface casing will be cemented to the surface with >100% excess. Lead with 650 sacks (1,137 cubic feet) Class C+ 4% PF20 + 2% PF1 + .125#/sack PF 29 + 0.25#/sack PF46. Density = 13.5, yield = 1.75, and water = 9.15. Tail with 200 sacks Class C (268 cubic feet) Class C. Density = 14.8, yield = 1.34, and water = 6.35. Centralizers will be run in compliance with Onshore Order 2 (at a minimum, on bottom 3 joints starting with shoe joint).

Intermediate casing will be cemented to the surface with 100% excess. Lead with 835 sacks 35/65 Poz/C + 5% PF44 (BWOW) + 6% PF20 +3#/sack PF 42+0.125#/sack PF29 + 0.25% PF 46+0.2%PF 13. Density = 12.6, yield = 2.06, and water = 11.00. Tail with 200 sacks (266 cubic feet) Class C + 0.3% PF13. Density = 14.8, yield = 1.33, and water = 6.35. Centralizers will be run on the first 3 joints and then every third joint back to the surface.

Production casing (5.5") will be cemented to surface with 35% excess in 2 stages using a stage tool set @ 9000'. **Stage 1:** 1530 sacks PVL + 1.3% PF44(BWOW) +5% PF174 +0.5% PF606 +0.8% PF13+0.2% PF153+0.25#/sack PF 46. Density =13.0, Yield 1.48, H20 7.57. **Stage 2 lead:** 550 sacks 35/65 P/H +5% PF44(BWOW) +6% PF 20 +2#/sack PF 42 +0.4% PF 13 + 0.125#/sack PF 29 + 0.25#/sack PF46. Density 12.6, yield 2.06, H20 11.06. **Stage 2 tail:** 200 sacks (296 cubic feet) PVL + 1.3% PF-44(BWOW) +5% PF 174 +0.5% PF606 + 0.8% PF13 + 0.2% PF153+0.25#/sack PF 46. Density 13.0, Yield 1.48 H20 7.57. Gamma log interpretation will determine centralizer locations.

If the alternate hole and casing design are needed the alternate casing will be cemented as follows:

7" Drilling liner:
Cement will tie back to Intermediate with a minimum of 200' of overlap using a 25% excess with 675 sacks (999 cubic feet) PVL + 1.3% PF-44(BWOW +5% PF174 +0.5% PF 606 + 0.2% PF 153 + 0.8% PF 13. Density 13.0, Yield 1.48, H20 7.57.

4.5" Casing:
Production casing (4.5") will be cemented to surface with 35% excess in 2 stages using a stage tool set @ 9000'. **Stage 1:** 550 sacks (814 cubic feet) PVL + 1.3% PF44(BWOW) +5% PF174 +0.5% PF606 +0.8% PF13+0.2% PF153. Density =13.0, Yield 1.48, H20 7.57. **Stage 2 lead:** 900 sacks (1854 cubic feet) 35/65 Poz/H +5% PF-44(BWOW) +6% PF 20 +2#/sack PF 42 +0.4% PF 13 + 0.12#/sack PF 29 + 0.25#/sack PF46. Density 12.6, yield 2.06, H20 11.06. **Stage 2 tail:** 200 sacks (296 cubic feet) PVL + 1.3% PF44(BWOW) +5% PF 174 +0.5% PF606 + 0.8% PF13 + 0.2% PF153. Density 13.0, Yield 1.48 H20 7.57. Gamma log interpretation will determine centralizer locations.

5. Proposed Mud System

Interval	Density	Plastic Viscosity	Viscosity	Yield Point	pH	API Filtrate	Solids	Chloride
40-1000 850	8.5-9.2	32-36	8-12	8-12	10.5	NC	<5	1k-5k
1000-4635	10.0-10.1	28-29	N/A	N/A	10.5	NC	<2	185k
4635-8700	8.8-9.2	28-29	N/A	N/A	10.5	N/A	<2	45k-95k
8700-9700	8.8-9.2	29-30	N/A	N/A	10.5	10-12	<2	45k-95k
9700-TD	8.8-9.2	29-30	N/A	N/A	10.5	10-12	<2	115k-140k

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run drill stem tests, open hole logs, and casing; the viscosity and water loss may have to be adjusted in order to meet these needs.

6. CORES, TESTS, & LOGS

Dual Laterolog, Neutron/Density, Gamma Ray, and Caliper open hole logs will be run from the pilot hole TD to the 9-5/8" casing shoe. Gamma Ray and Neutron logs will be run from the 9-5/8" casing shoe back to the surface. A Gamma Ray and survey tool will be run via MWD through the curve build and the lateral.

A mud logger will be rigged up on the hole at 3,900' and remain on the hole to TD.

No cores or drill stem tests are planned at this time.

7. DOWN HOLE CONDITIONS

No abnormal pressures or temperatures are expected. VPR does not anticipate that there will be enough H2S from the surface of the Bone Spring formations to require an H2S plan. Nevertheless, as a precaution, an H2S plan is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP = 4,200 psi. Estimated BHT = 150° F.

8. OTHER INFORMATION

Construction will begin upon approval. Spud date will be once the pad is built. Drilling is expected to take 30-35 days. If production casing is run, then an additional 30 days will be required to complete the well and construct surface facilities.

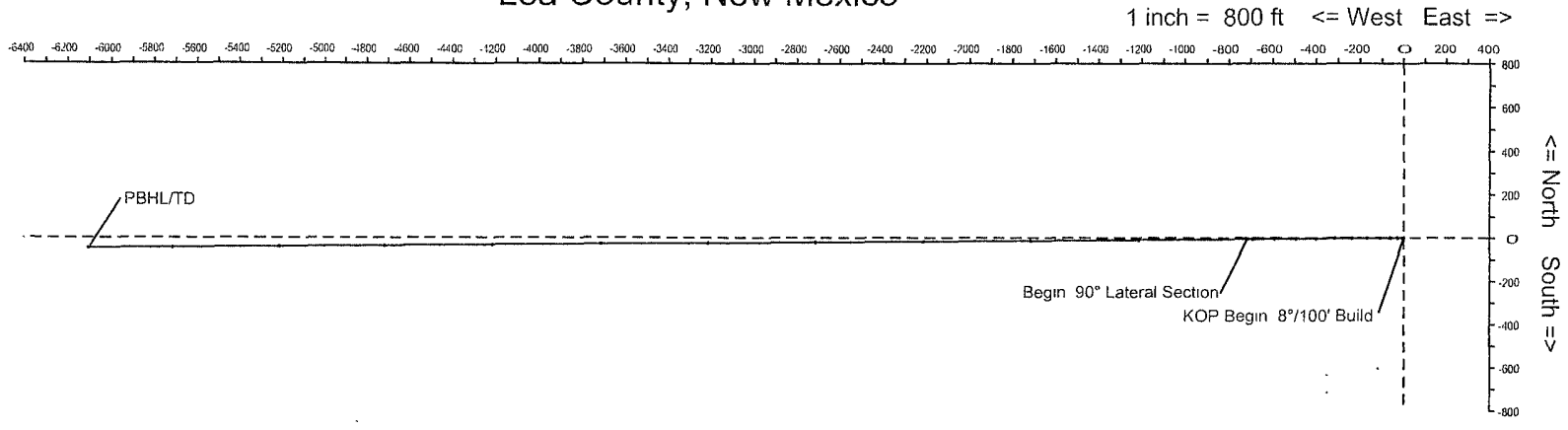
A communitization agreement for the S2NE4 Section 34 and S2NW4 & SWNE Section 35 is being filed simultaneous with the APD. The aliquot parts described above are parts of BLM leases NMNM-108972 and NMNM-108973.

This APD replaces an earlier APD dated 12/11/2011 for a well named Harrier Federal Com 1H as discussed between John Maxey and Wesley Ingram. That well was staked at 330 FNL & 660 FWL 35-25s-32e and its BHL was 330 FSL & 330 FEL 34-25s-32e.

VPR Operating

Harrier 35 Federal #1H

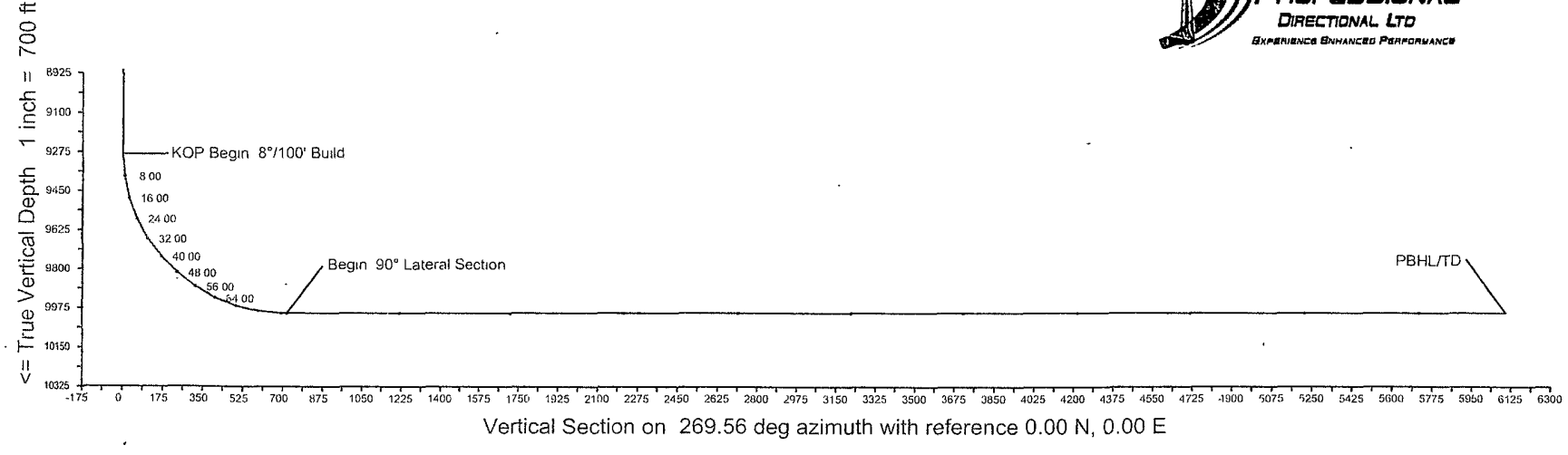
Lea County, New Mexico



WELL PROFILE DATA rev1

MD	Inc	Azi	TVD	N/-S	E/-W	DLS	Comment	02-28-2012
9284	0.00	269.57	9284	0	0	0.00	KOP Begin 8°/100' Build	
10409	90.00	269.57	10000	-5	-716	8.00	Begin 90° Lateral Section	
15794	90.00	269.57	10000	-46	-6101	0.00	PBHL/TD	

PROFESSIONAL DIRECTIONAL LTD
EXPERIENCE ENHANCED PERFORMANCE



Professional Directional, Ltd

Company: VPR Operating LLC
Well: Harrier 35 Federal 1
Location: Lea County, New Mexico Sect35-25S-32E

Date: 28-Feb-2012
Rev 1
Page 1
Job# : 6392
NAD83 NM East gr elev=3363

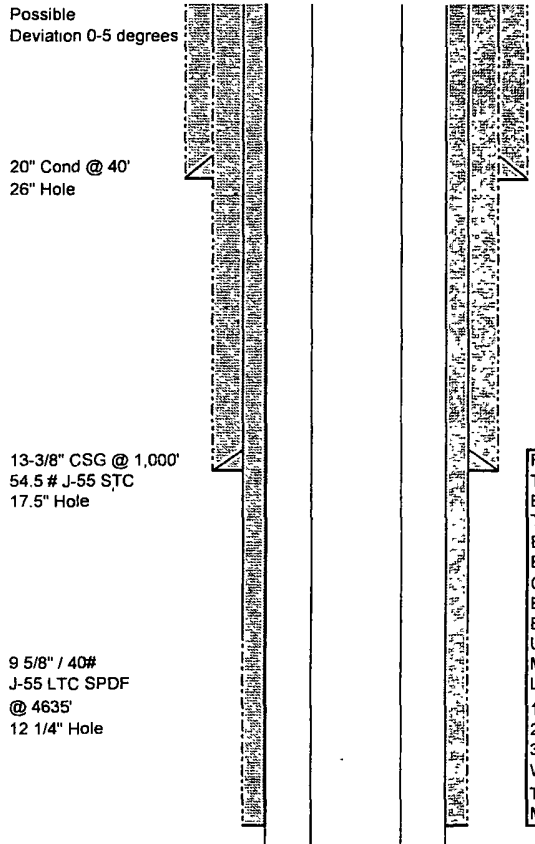
MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/-S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 269.57° Az (feet)	Grid Y	Grid X	Comments
Surface Location								**396726.67**	**755434.67**	1980 FNL 1500 FEL
9283.80	0.00	269.57	9283.80	0.00	0.00	0.00	0.00	396726.67	755434.67	KOP Begin 8°/100' Build
9383.80	8.00	269.57	9383.48	-0.05	-6.97	8.00	6.97	396726.62	755427.70	
9483.80	16.00	269.57	9481.21	-0.21	-27.74	8.00	27.74	396726.46	755406.92	
9583.80	24.00	269.57	9575.11	-0.47	-61.92	8.00	61.92	396726.20	755372.75	
9683.80	32.00	269.57	9663.33	-0.82	-108.82	8.00	108.83	396725.84	755325.84	
9783.80	40.00	269.57	9744.17	-1.27	-167.55	8.00	167.56	396725.40	755267.11	
9883.80	48.00	269.57	9816.04	-1.80	-236.96	8.00	236.97	396724.87	755197.71	
9983.80	56.00	269.57	9877.56	-2.39	-315.70	8.00	315.70	396724.28	755118.97	
10083.80	64.00	269.57	9927.52	-3.05	-402.23	8.00	402.24	396723.62	755032.44	
10183.80	72.00	269.57	9964.95	-3.75	-494.87	8.00	494.88	396722.92	754939.80	
10283.80	80.00	269.57	9989.12	-4.48	-591.81	8.00	591.83	396722.18	754842.85	
10383.80	88.00	269.57	9999.56	-5.24	-691.18	8.00	691.20	396721.43	754743.49	
10408.80	90.00	269.57	10000.00	-5.43	-716.18	8.00	716.20	396721.24	754718.49	Begin 90° Lateral Section
10908.80	90.00	269.57	10000.00	-9.22	-1216.16	0.00	1216.20	396717.45	754218.51	
11408.80	90.00	269.57	10000.00	-13.00	-1716.15	0.00	1716.20	396713.67	753718.52	
11908.80	90.00	269.57	10000.00	-16.79	-2216.13	0.00	2216.20	396709.88	753218.53	
12408.80	90.00	269.57	10000.00	-20.58	-2716.12	0.00	2716.20	396706.09	752718.55	
12908.80	90.00	269.57	10000.00	-24.37	-3216.11	0.00	3216.20	396702.30	752218.56	
13408.80	90.00	269.57	10000.00	-28.16	-3716.09	0.00	3716.20	396698.51	751718.58	
13908.80	90.00	269.57	10000.00	-31.95	-4216.08	0.00	4216.20	396694.72	751218.59	
14408.80	90.00	269.57	10000.00	-35.73	-4716.06	0.00	4716.20	396690.93	750718.61	
14908.80	90.00	269.57	10000.00	-39.52	-5216.05	0.00	5216.20	396687.15	750218.62	
15408.80	90.00	269.57	10000.00	-43.31	-5716.03	0.00	5716.20	396683.36	749718.64	
15793.96	90.00	269.57	10000.00	-46.23	-6101.18	0.00	6101.36	396680.44	749333.49	PBHL/TD

VPR Operating, LLC

Preferred Plan

Harrier 35 Fed Com #1
Section 35, T25S-R32E
Lea Co , New Mexico

Surface Location: 1980' FNL, 1500' FEL, Section 35, T25S-R32E
BHL: 1980' FNL, 2310' FEL, Section 34, T25S-R32E



KOP @ +/- 9,283'
MD @ EOC = 10,409', 90 Degrees
TVD @ EOC = 10,000'
Projected MD @ EOL = 15,794'
Projected TVD @ EOL = 10,000

Casing Program

13-3/8"	0-1,000'	12 459" drift
9 5/8" 40#/J-55/STC	0-4635'	8 75" special Drift
5 1/2" P-110 20# HC/BTC & LTC	15,794'	

Formation Tops

Rustler	740'
Top Salt	1100'
Base Salt	4400'
Top Lamar	4620'
Base Lamar	4670'
Bell Canyon	4670'
Cherry Canyon	5850'
Brushy Canyon	7550'
Bone Spring	8820'
Upper Avalon Shale	8830'
Middle Avalon Shale	9020'
Lower Avalon Shale	9400'
1st Bone Spring Sand	9830'
2nd Bone Spring Sand	10470'
3rd Bone Spring Sand	11470'
Wolfcamp	11970'
TD Pilot Hole	12200'
MD TD	**15,794'**

Cement Program

Surface casing will be cemented to the surface with >100% excess Lead with 650 sacks (1,137 cubic feet) Class C+ 4% % PF20 + 2% PF1 + 125#/sack PF 29 + 0 25#/sack PF46 Density = 13 5, yield = 1 75, and water = 9 15
Tail with 200 sacks (268 cubic feet) Class C Density = 14 8, yield = 1.34, and water = 6 34
Centralizers will be run in compliance with Onshore Order 2 (at a minimum, on bottom 3 joints starting with shoe joint)

Intermediate casing will be cemented to the surface with 35% excess Lead with 835 sacks 35/65 Poz/C + 5% PF44 (BWOW) + 6% PF20 + 3#/skPF42+0 125#/skPF29+0 25%PF46+0 2%PF13 Density = 12 6, yield = 2 06, and water = 11 00
Tail with 200 sacks Class C + 0 3% PF13 Density = 14 8, yield = 1 33, and water = 6 35
Centralizers will be run on the first 3 joints and then every third joint back to the surface

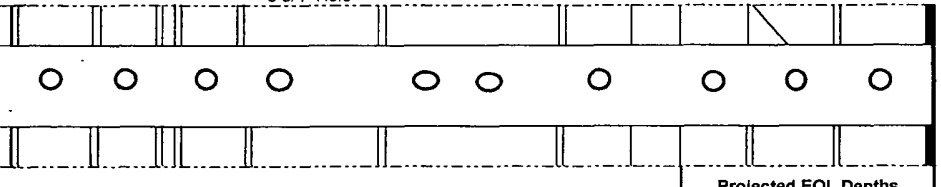
Isolation Plug/Kick Off Plug will cemented using 25% over open hole volume and 10% excess in the cased hole or by using recommened excess over caliper log
Isolation Plug: 400sks H+0 4%PF65+0 5%PF13 Density=17 5, Yield=0 94, and water H2O= 3 37
Kick Off Plug: 20 bbls Chemical Wash Ahead--400sks H+0 4% PF65+0 4%PF13 Density=17 5, Yield=0 94, and H2O=3 37

Production casing (5 5") will be cemented to surface with 35% excess in 2 stages using a stage tool set @ 9000'
20 bbls chemical Wash
Stage 1: 1530 sacks PVL + 1 3% PF44(BWOW) +5% PF174 +0 5% PF606 +0 8% PF13+0 2% PF153+0 25#/skPF46 Density =13 0, Yield 1 48, H20 7 57
Stage 2 lead: 550 sacks 35/65 P/H +5% PF44(BWOW) +6% PF 0 +2#/sack PF42 +0 4% PF13 + 0 125#/sack PF29 + 0 25#/sack PF46 Density 12 6, yield 2 06, H20 11 06
Stage 2 tail: 200 sacks PVL + 1.3% PF44(BWOW) +5% PF174 +0 5% PF606 + 0 8% PF13 + 0 2% PF153+0 25#/skPF46 Density 13 0, Yield 1 48 H20 7 57 Gamma log interpretation will determine centralizer locations

Mud Program

Interval Depth	Density	Viscosity	Plastic Viscosity	Yield Point	pH	Filtrate-API	Solids	Chloride
40' – 1,180'	8 5 –9 2	32 – 36	8 – 12	8 – 12	10 5	NC	< 5	1k – 5k
1,180' – 4,635'	10 0 –10 1	28 – 29	NA	NA	10 5	NC	< 2	185k
± 4,635'– ±8,700'	8 8 – 9 2	28 – 29	N/A	N/A	10 5	N/A	< 2	45k – 95k (*)
± 8,700'--9,700'	8 8 –9 2	29 – 30	N/A	N/A	10.5	10 – 12	< 2	45k – 95k (*)
9,700' – 15,794'	8 8 – 9 2	29 – 30	N/A	N/A	10 5	10 – 12	< 2	115k – 140k (*)

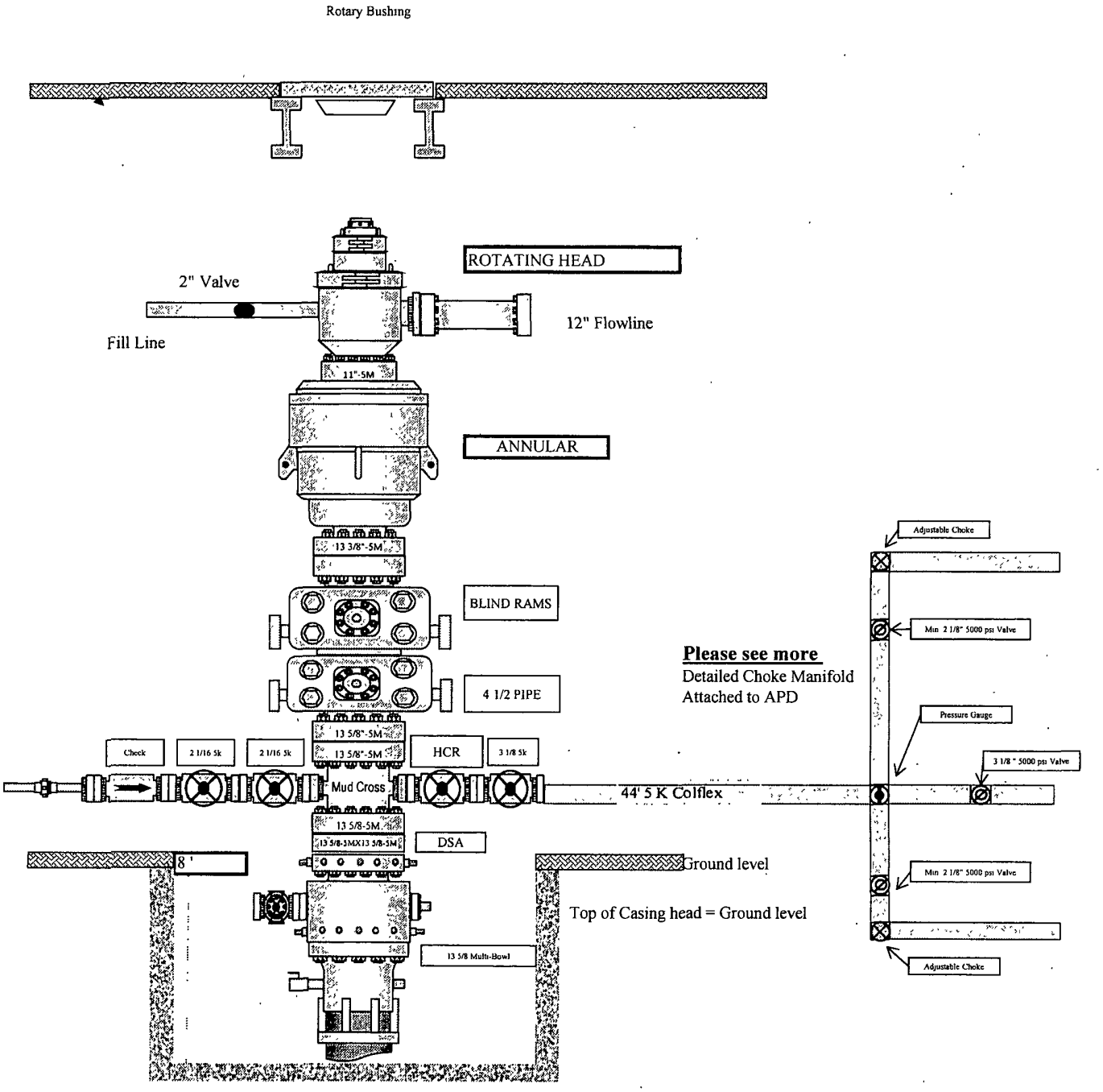
5 1/2" P-110 20# HC/ LTC 0 - 9,100' 5
1/2" P-110 20# HC BTC 9,100' - 15,794'
8 3/4" Hole



Projected EOL Depths
MD = 15,794'
TVD = 10,000'

Operator **VPR OPERATING** Date : _____

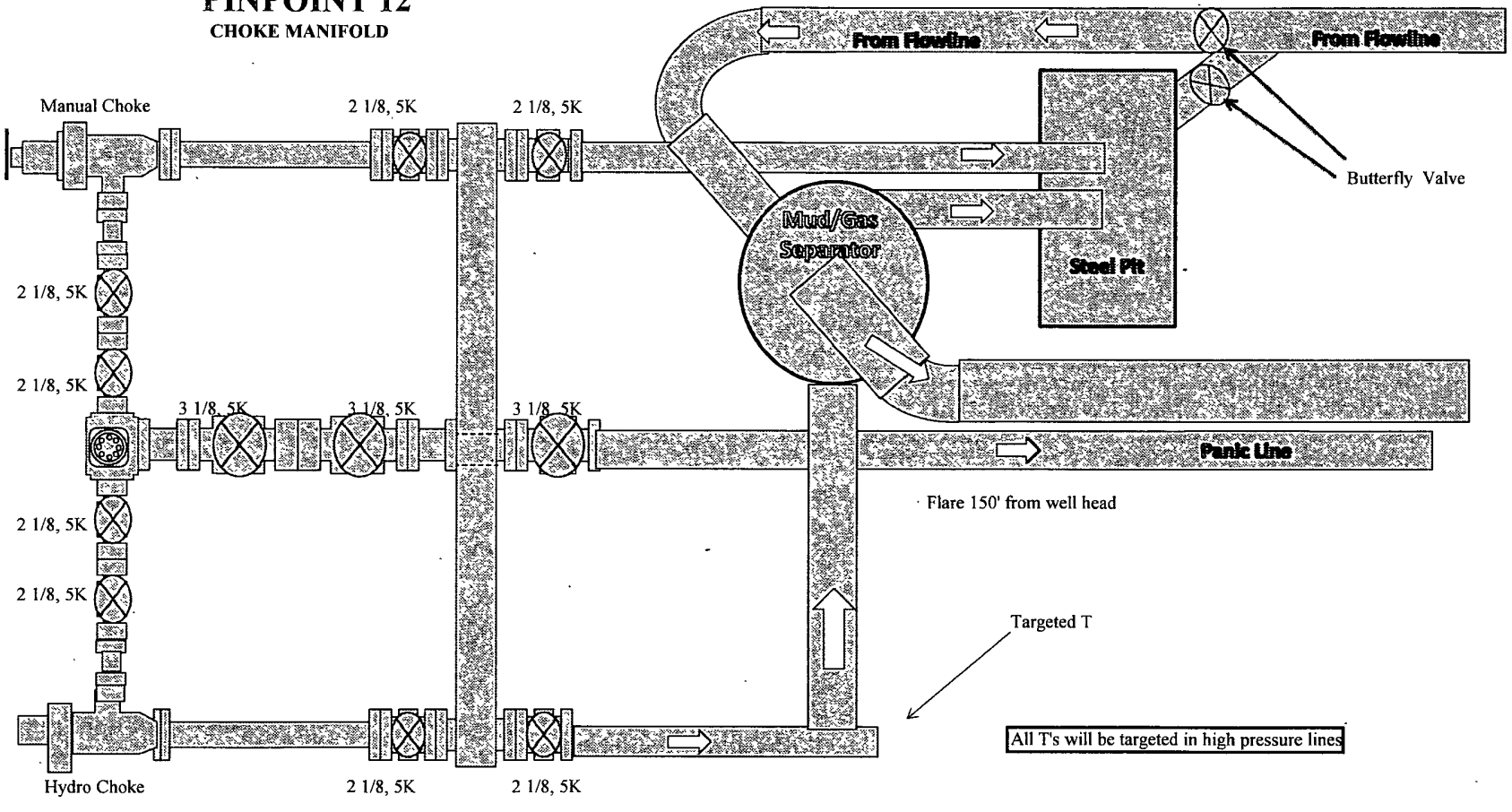
Harrier 35 Fed Com #1



Please see more
Detailed Choke Manifold
Attached to APD

PINPOINT 12

CHOKE MANIFOLD



Midwest Hose
& Specialty, Inc.

INTERNAL HYDROSTATIC TEST REPORT

Customer:	Customer P.O. Number:
PINPOINT	

HOSE SPECIFICATIONS

Type: Rotary / Vibrator Hose C & K / API 7K	Hose Length: 50 FEET
I.D. 3.5 *INCHES*	O.D. *INCHES*

WORKING PRESSURE	TEST PRESSURE	BURST PRESSURE
5,000 *PSI*	5,000 *PSI*	N/A *PSI*

COUPLINGS

Part Number	Stem Lot Number	Ferrule Lot Number
4 1/16 5K 4 1/16 5K		

Type of Coupling:	Die Size:
Swage-It	

PROCEDURE

Hose assembly pressure tested with water at ambient temperature.

TIME HELD AT TEST PRESSURE	ACTUAL BURST PRESSURE:
9 3/4 *MIN.*	N/A *PSI*

Hose Assembly Serial Number:	Hose Serial Number:

Comments:

Date:	Tested:	Approved:
4/12/2012	JOE PROCTOR	KIM THOMAS

Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

April 11, 2012

Customer: Pinpoint

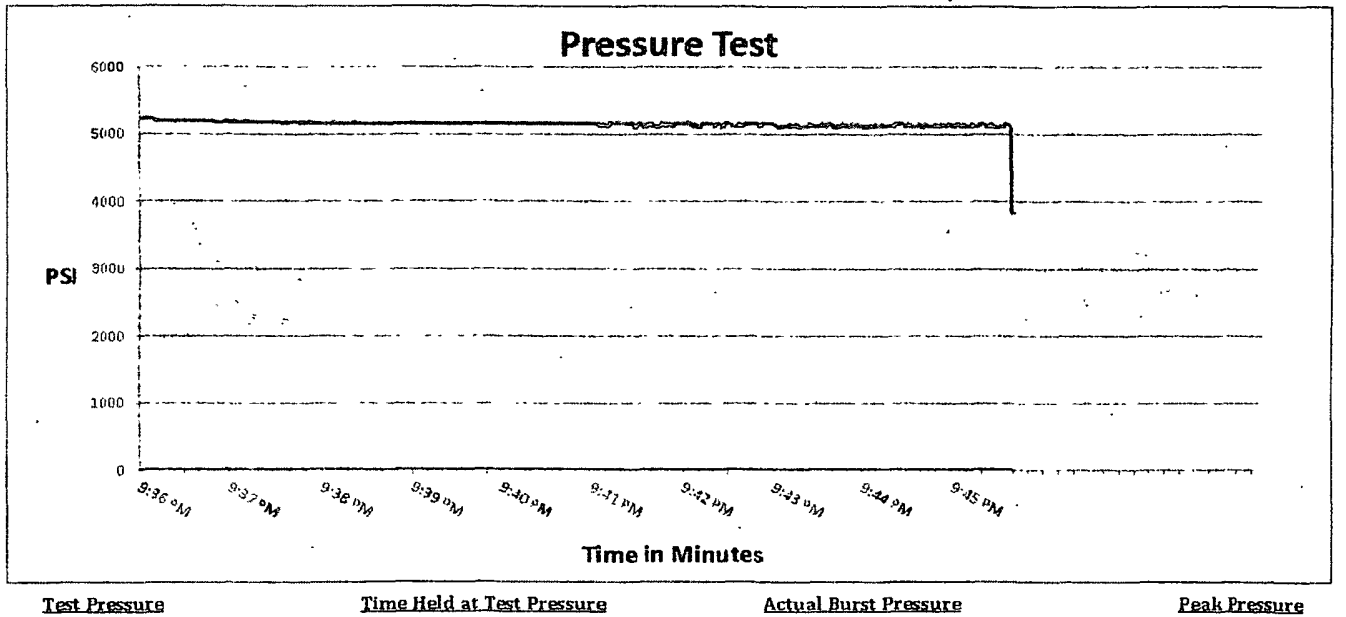
Pick Ticket #: 41010

Hose Specifications

Hose Type	Length
C & K	50'
I.D.	**O.D.**
3.5"	0
Working Pressure	**Burst Pressure**
5000 PSI	Standard Safety Multiplier Applies

Verification

Type of Fitting	Coupling Method
4 1/16 5K	Swage
Die Size	**Final O.D.**
0	0
Hose Serial #	**Hose Assembly Serial #**
0	0



Test Pressure	Time Held at Test Pressure	Actual Burst Pressure	Peak Pressure
5000 PSI	9 3/4 Minutes		5493 PSI

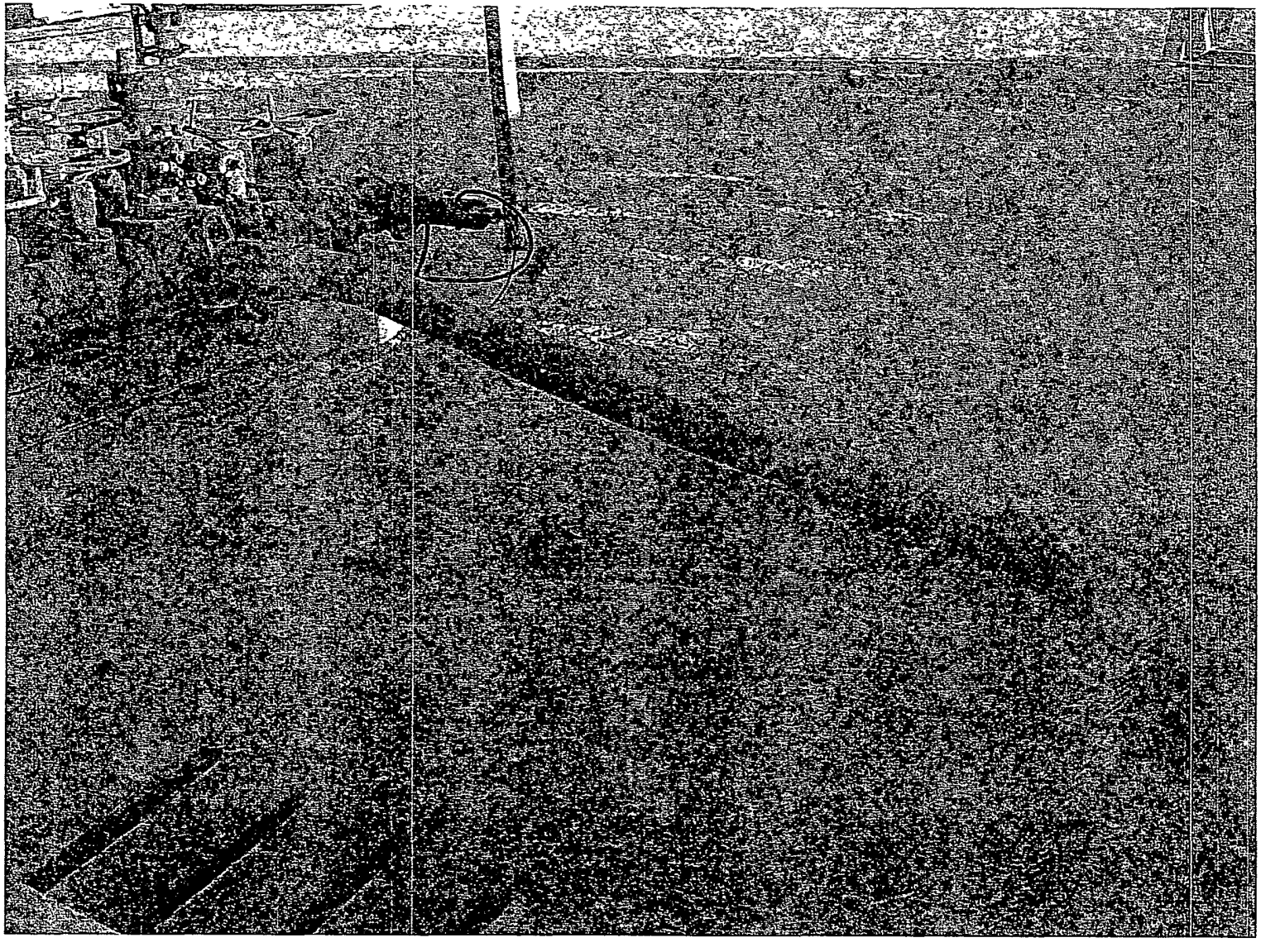
Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: *Joe Proctor*

x Joe Proctor

Approved By: *Kim Thomas*

x Kim Thomas



5K Coflex Pinpoint Rig 12
Manufacturer: MSM
Serial # 1UAAP5L111/04503946