

OCD-ARTESIA

NOV 17 2008

Form 3160-3
(August 2008)

OCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

81

1a. Type of Work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

2. Name of Operator

Yates Petroleum Corporation 025575

3a. Address

105 South Fourth Street, Artesia, NM 88210

3b. Phone No. (include area code)

505-748-1471

4. Location of well (Report location clearly and in accordance with any State requirements.)*

At surface

Roswell Controlled Water Basin

2310' FNL and 350' FEL Surface Hole Location

At proposed prod zone

1700' FNL and 330' FWL Bottom Hole Location

14. Distance in miles and direction from the nearest town or post office*

Approx 9.7 miles north of Loco Hills, New Mexico

12. County or Parish

Eddy County

13. State

New Mexico

15. Distance from proposed*

location to nearest
property or lease line, ft.

(Also to nearest drlg. unit line, if any)

350'

16. No. of acres in lease

318.61

17. Spacing Unit dedicated to this well

Lots 5,6,7,8 156.02 acres

18. Distance from proposed location*

to nearest well, drilling, completed,
applied for, on this lease, ft.

1300'

19. Proposed Depth

TVD 7438' TMD 11782'

20. BLM/ BIA Bond No. on file

NATIONWIDE BOND #NMB000434

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

3817' GL

22. Approximate date work will start*

23. Estimated duration

45 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall 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 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

Name (Printed/ Typed)

Cy Cowan

Date

10/16/2008

Title

Regulatory Agent

Approved By (Signature)

/s/ DAVID D. EVANS

Name (Printed/ Typed)

/s/ DAVID D. EVANS

Date

NOV 14 2008

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 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 wilfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations.

* (Instructions on page 2)

C-144 Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVALNOTIFY OCD 24-hrs PRIOR to Spud
NOTIFY OCD of ALL Lost Circulation and
Water Flow Zones
NOTIFY OCD per 19.15.3.118 of H2S
Values WHILE Drilling.APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

APPROVAL FOR TWO YEARS

DISTRICT I
1625 N. French St., Hobbs, NM 88240

DISTRICT II
1201 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Edo Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36785	Pool Code 96794	Pool Name WILDCAT WOLF CAMP Oil
Property Code 37496	Property Name SPANGLISH "BLS" FEDERAL	Well Number 2H
OGED No. 025575	Operator Name YATES PETROLEUM CORP.	Elevation 3817'

Surface Location

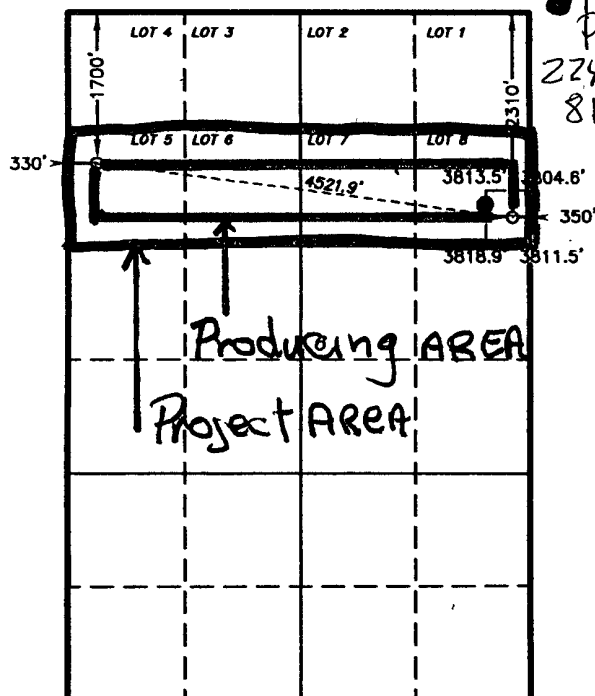
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 8	6	16 S	30 E		2310	NORTH	350	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 5	6	16 S	30 E		1700	NORTH	330	WEST	EDDY

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



BOTTOM HOLE LOCATION
Lat - N32°57'38.35"
Long - W104°01'06.76"
SPC- N.: 713365.717
E.: 637887.389
(NAD-83)

SURFACE LOCATION
Lat - N32°57'32.22"
Long - W104°00'14.27"
SPC- N.: 712759.734
E.: 642361.287
(NAD-83)

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

[Signature] 10/16/08
Signature Date

C. C. Gowan
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

SEPTEMBER 29, 2008

Date Surveyed
Signature of Professional Surveyor

[Signature]
W.O. Jones

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

YATES PETROLEUM CORPORATION

Spanglish BLS Federal #2H

2310' FNL and 350' FEL; Section 6-16S-30E (Surface Hole Location)

1700' FNL and 330' FWL, Section 6-16S-30E (Bottom Hole Location)

Eddy County, New Mexico

1. The estimated tops of geologic markers are as follows:

Yates	1190'		Glorieta	4168'	
Seven Rivers	1320'		Tubb	5330'	
Queen	1843'	Oil/Gas	ABO	6318'	Gas
Grayburg	2409'	Oil	Wolfcamp	7608'	Oil
San Andres	2647'	Oil	TVD	6868'	
			TMD	11782'	

2. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water: 200'

Oil or Gas: See above

See COA

3. Pressure Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 3000 psi BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout Preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

Auxiliary Equipment:

- A. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.

4. THE PROPOSED CASING AND CEMENTING PROGRAM:

A. Casing Program: (All New)

Hole Size	Casing Size	Wt./Ft	Grade	Thread	Interval	Length
14 3/4"	11 3/4"	42#	H-40	ST&C	0-400'	400'
11"	8 5/8"	32#	J-55	ST&C	0-100'	100'
11"	8 5/8"	24#	J-55	ST&C	100-2200'	2100'
11"	8 5/8"	32#	J-55	ST&C	2200-2750'	550'
7 7/8"	5 1/2"	17#	HCP-110	LT&C	0'-11782' MD	11782'

Pilot hole will be drilled to 7420'. The well will then be plugged back and will kick off at approximately 6868' at 12 degrees per 100' with a 7 7/8" hole to 11782' MD with a TVD of 7438'. The penetration point of producing zone will be encountered at 2249' FNL & 813' FEL. The deepest TVD in the lateral will be 7438'. We request a variance be given to test the BOP on the surface casing to 1000 psi using rig pumps.

See COA

Minimum Casing Design Factors: Burst 1.0, Tensile Strength 1.8, Collapse 1.125

B. CEMENTING PROGRAM:

Surface Casing: 275 sx "C" with 2%CaCl₂ (WT 14.80 YLD 1.34). **Cement to surface.**

Intermediate Casing: 575 sx C Lite (Wt. 12.50 YLD 2.04). Tail in with 200 sx C + 2% CaCl₂ (Wt 14.80 YLD 1.33). **Cement at surface.**

Production Casing: **TOC 2250'**, Lead w/ 600 sx 50:50:10C (WT 11.60 YLD 2.43). Tail in with 1275 sx 50:50:4C (WT 13.50 YLD 1.46)

5. Mud Program and Auxiliary Equipment:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
Spud to 400'	Fresh Water Gel	8.6-9.0	32-34	N/C
400'-2750'	Brine Water	10.0-10.2	28	N/C
2750'-6300'	Cut Brine	8.7-9.2	28	N/C
6300'-7420'	Cut Brine	8.7-9.2	28	<10-15
6868'-11782	Cut Brine	8.7-9.2	28	<10-12

(Lateral Section)

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

6. EVALUATION PROGRAM:

Samples: 10' out from under intermediate casing to TD.

Logging: Platform Express CNL/LDT/NGT to intermediate casing, CNL/GR TD to Surface, DLL-MSFL TD to surface Casing, BHE-Sonic TD to surface casing.
Horizontal Lateral: MWD / GR.

Coring: None anticipated.

DST's: None anticipated.

H₂S: None anticipated.

7. ABNORMAL CONDITIONS, BOTTOM HOLE PRESSURE AND POTENTIAL HAZARDS:

Anticipated BHP:

From: 0	TO 400' TVD	Anticipated Max. BHP: 190	PSI
From: 400'	TO 2750' TVD	Anticipated Max. BHP: 1460	PSI
From: 2750'	TO 7438' TVD	Anticipated Max. BHP: 3560	PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None

H₂S Zones Anticipated: None

Maximum Bottom Hole Temperature: 120° F

8. ANTICIPATED STARTING DATE:

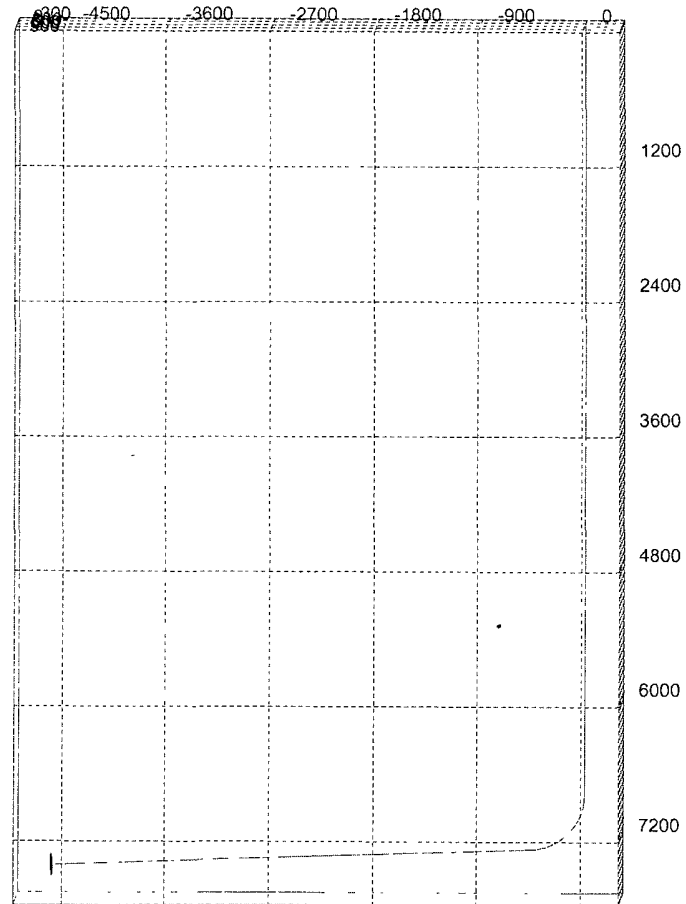
Plans are to drill this well as soon as possible after receiving approval. It should take approximately 45 days to drill the well with completion taking another 30 days.

M.D	Inclination	Azimuth	TVD	N/S	E/W	D.L.S	ToolFace	T.F.Ref.(HS/GN)	
0	0	0	0	0	0	0			
1,190	0	0	1,190	0	0	0			YATES
1,320	0	0	1,320	0	0	0			SEVEN RIVERS
1,843	0	0	1,843	0	0	0			QUEEN
2,409	0	0	2,409	0	0	0			GRAYBURG
2,647	0	0	2,647	0	0	0			SAN ANDRES
4,168	0	0	4,168	0	0	0			GLORIETA
5,330	0	0	5,330	0	0	0			TUBB
6,318	0	0	6,318	0	0	0			ABO
6868	0	0	6868	0	0	12	278	GN	KOP
6875	0.84	277.55	6875	0.01	-0.05	12	360	HS	
6900	3.84	277.55	6899.98	0.14	-1.06	12	0	HS	
6925	6.84	277.55	6924.87	0.45	-3.37	12	360	HS	
6950	9.84	277.55	6949.6	0.92	-6.96	12	360	HS	
6975	12.84	277.55	6974.11	1.57	-11.84	12	360	HS	
7000	15.84	277.55	6998.33	2.38	-17.97	12	0	HS	
7025	18.84	277.55	7022.19	3.36	-25.36	12	0	HS	
7050	21.84	277.55	7045.63	4.5	-33.97	12	360	HS	
7075	24.84	277.55	7068.58	5.81	-43.79	12	360	HS	
7100	27.84	277.55	7090.98	7.26	-54.78	12	360	HS	
7125	30.84	277.55	7112.77	8.88	-66.93	12	0	HS	
7150	33.84	277.55	7133.89	10.63	-80.18	12	360	HS	
7175	36.84	277.55	7154.28	12.53	-94.52	12	0	HS	
7200	39.84	277.55	7173.89	14.57	-109.89	12	0	HS	
7225	42.84	277.55	7192.65	16.74	-126.26	12	360	HS	
7250	45.84	277.55	7210.53	19.04	-143.58	12	360	HS	
7275	48.84	277.55	7227.47	21.46	-161.8	12	360	HS	
7300	51.84	277.55	7243.43	23.99	-180.88	12	0	HS	
7325	54.84	277.55	7258.35	26.62	-200.75	12	0	HS	
7350	57.84	277.55	7272.21	29.36	-221.38	12	0	HS	
7375	60.84	277.55	7284.95	32.18	-242.69	12	0	HS	
7400	63.84	277.55	7296.56	35.09	-264.64	12	0	HS	
7425	66.84	277.55	7306.99	38.08	-287.16	12	0	HS	
7450	69.84	277.55	7316.21	41.13	-310.19	12	360	HS	
7475	72.84	277.55	7324.21	44.25	-333.67	12	0	HS	
7500	75.84	277.55	7330.96	47.41	-357.53	12	0	HS	
7525	78.84	277.55	7336.44	50.62	-381.71	12	360	HS	
7550	81.84	277.55	7340.63	53.86	-406.14	12	0	HS	
7575	84.84	277.55	7343.53	57.12	-430.75	12	360	HS	
7600	87.84	277.55	7345.13	60.4	-455.48	12	0	HS	
7607.4	88.73	277.55	7345.35	61.37	-462.81	0			Producing Zone
11781.83	88.73	277.55	7438	610	-4600	0			Lateral TD

Pilot hole will be drilled to 7420' Well will then be plugged back and kicked off at approx 6868' at 12 degrees per 100' to 11,782' MD with a TVD of 7,438'. Penetration point of producing formation encountered at 2249' FNL and 813' FEL, 6-16S-30E. Deepest TVD of the well will be in the lateral @ 7,438'.

3D³ Directional Drilling Planner - 3D View

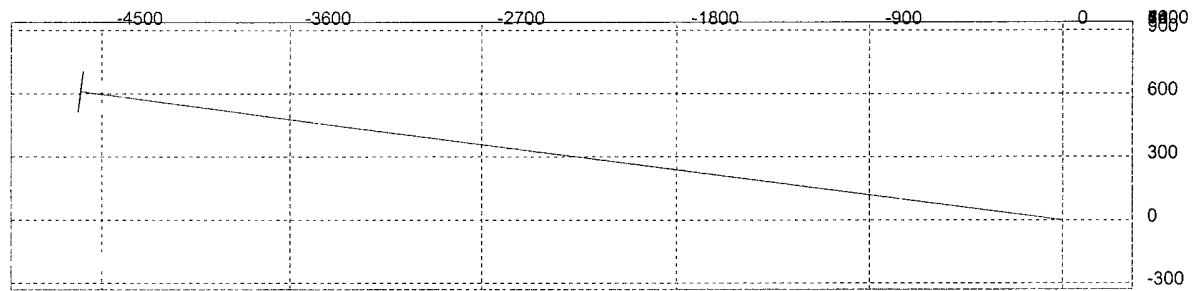
Company: **Yates Petroleum Corporation**
Well: **Spanglish BLS Federal #2H**

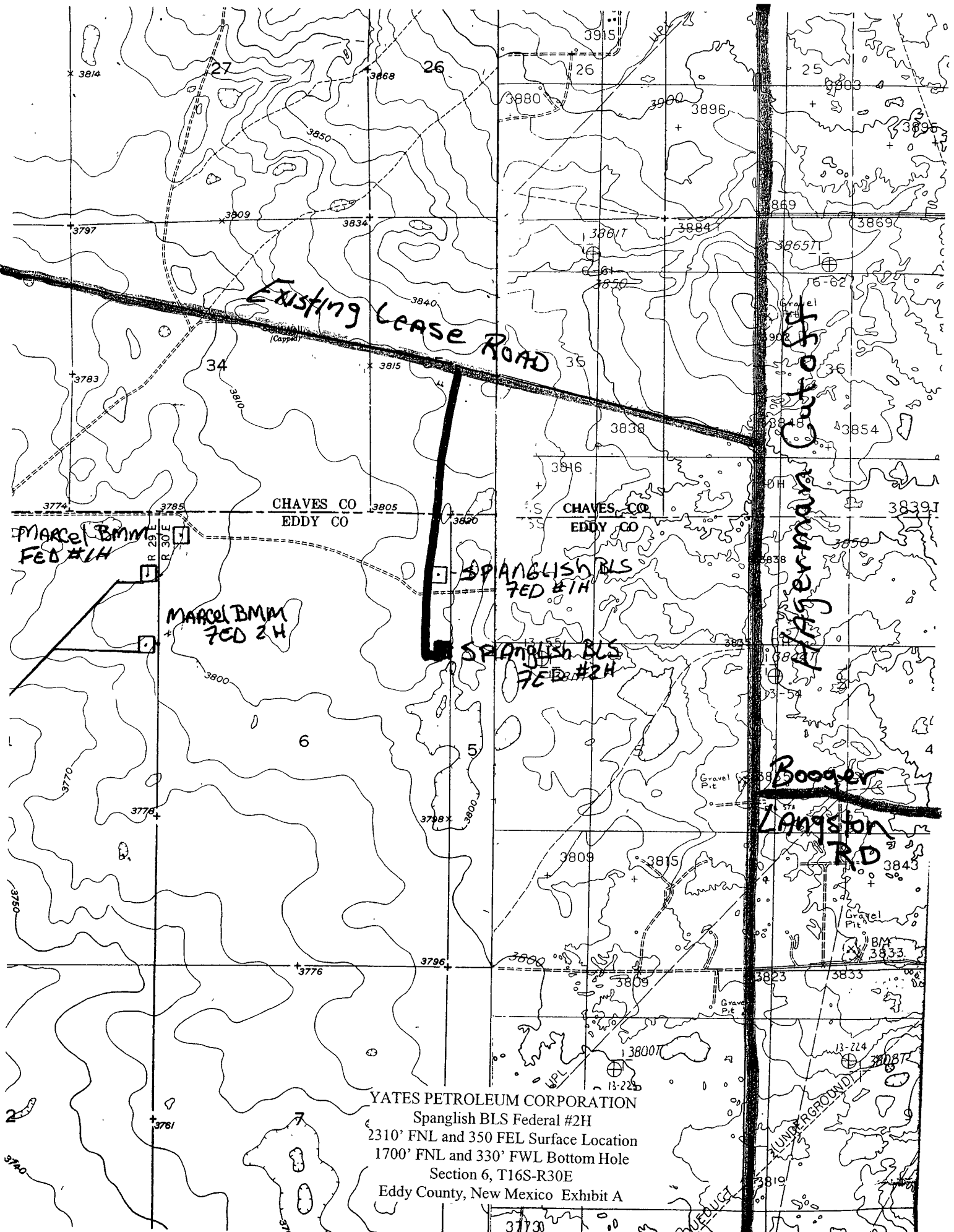


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3D³ Directional Drilling Planner - 3D View

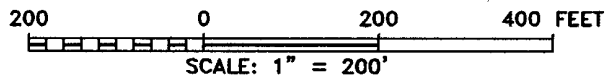
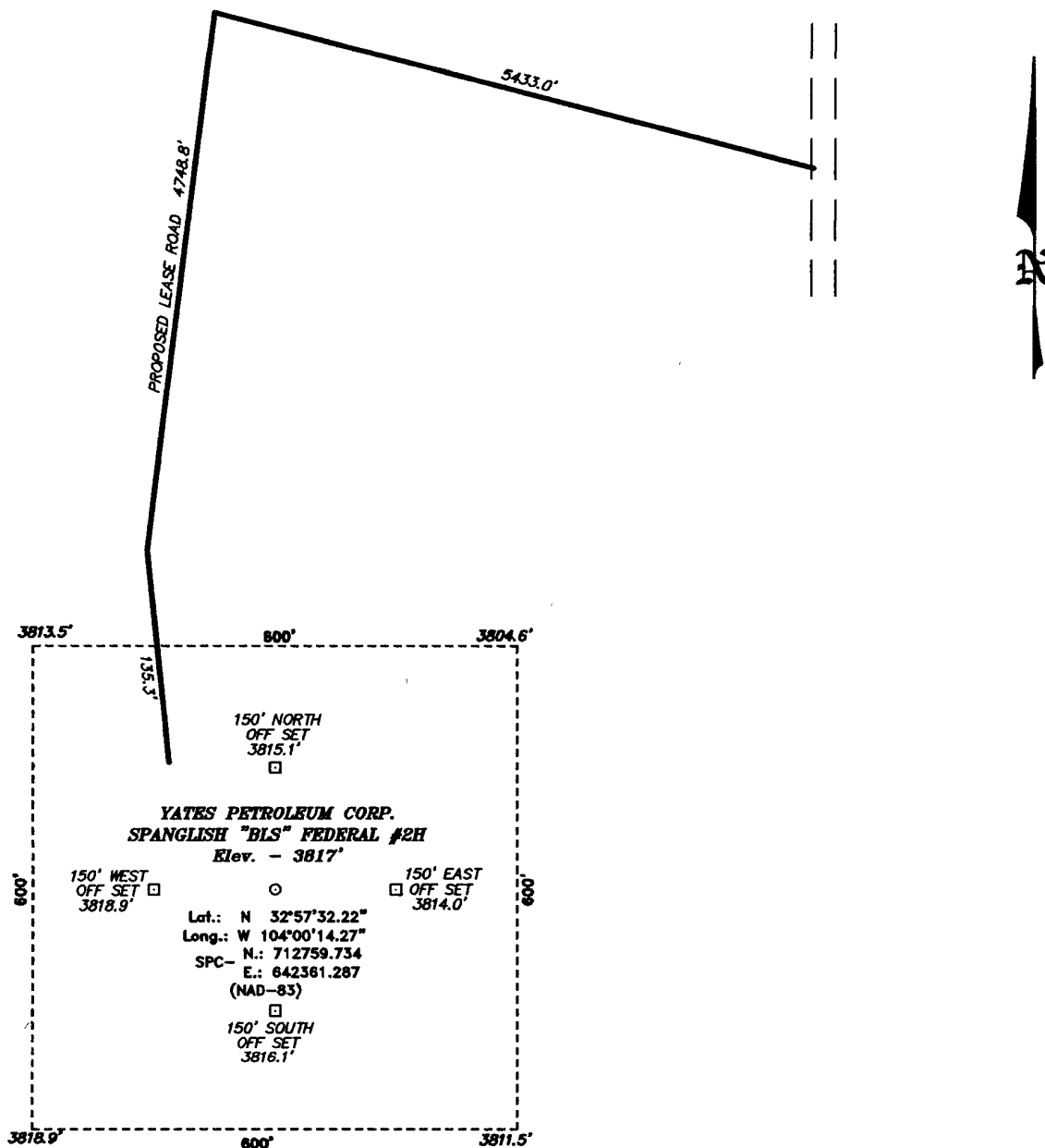
Company: Yates Petroleum Corporation
Well: Spanglish BLS Federal #2H





YATES PETROLEUM CORPORATION
Spanglish BLS Federal #2H
2310' FNL and 350' FEL Surface Location
1700' FNL and 330' FWL Bottom Hole
Section 6, T16S-R30E
Eddy County, New Mexico Exhibit A

SECTION 6, TOWNSHIP 16 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



YATES PETROLEUM CORP.

REF: SPANGLISH "BLS" FEDERAL #2H / WELL PAD TOPO

THE SPANGLISH "BLS" FEDERAL #2H LOCATED 2310'
FROM THE NORTH LINE AND 350' FROM THE EAST LINE OF
SECTION 6, TOWNSHIP 16 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 20475

Drawn By: J. M. SMALL

Date: 10-02-2008

Disk: 20475 JMS

Survey Date: 09-26-2008

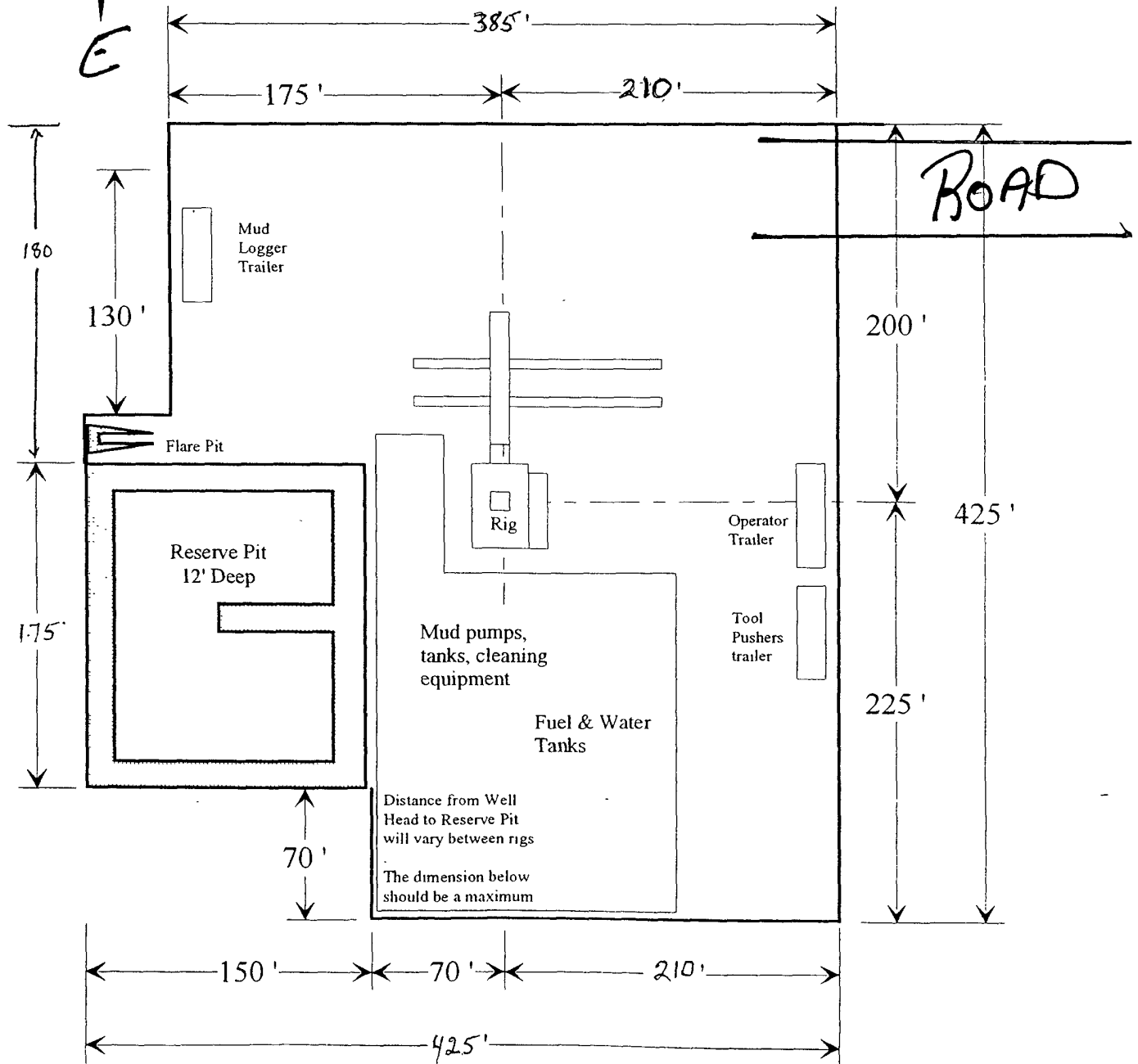
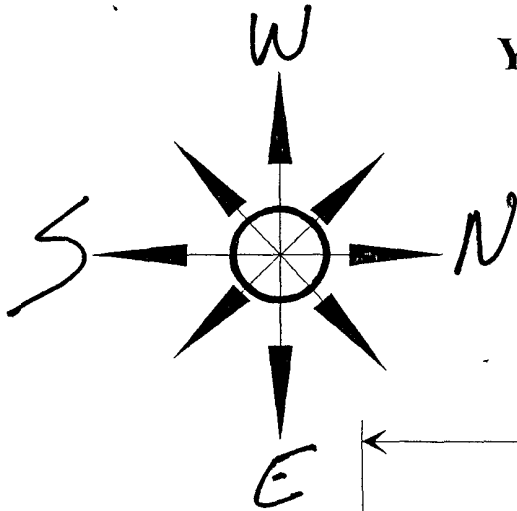
Sheet 1 of 1 Sheets

PB - L2

Yates Petroleum Corporation

Location Layout for Permian Basin
Horizontal Drill Site

YATES PETROLEUM CORPORATION
Spanglish BLS Federal #2H
2310' FNL and 350' FEL Surface Location
1700' FNL and 330' FWL Bottom Hole
Section 6, T16S-R30E
Eddy County, New Mexico Exhibit B

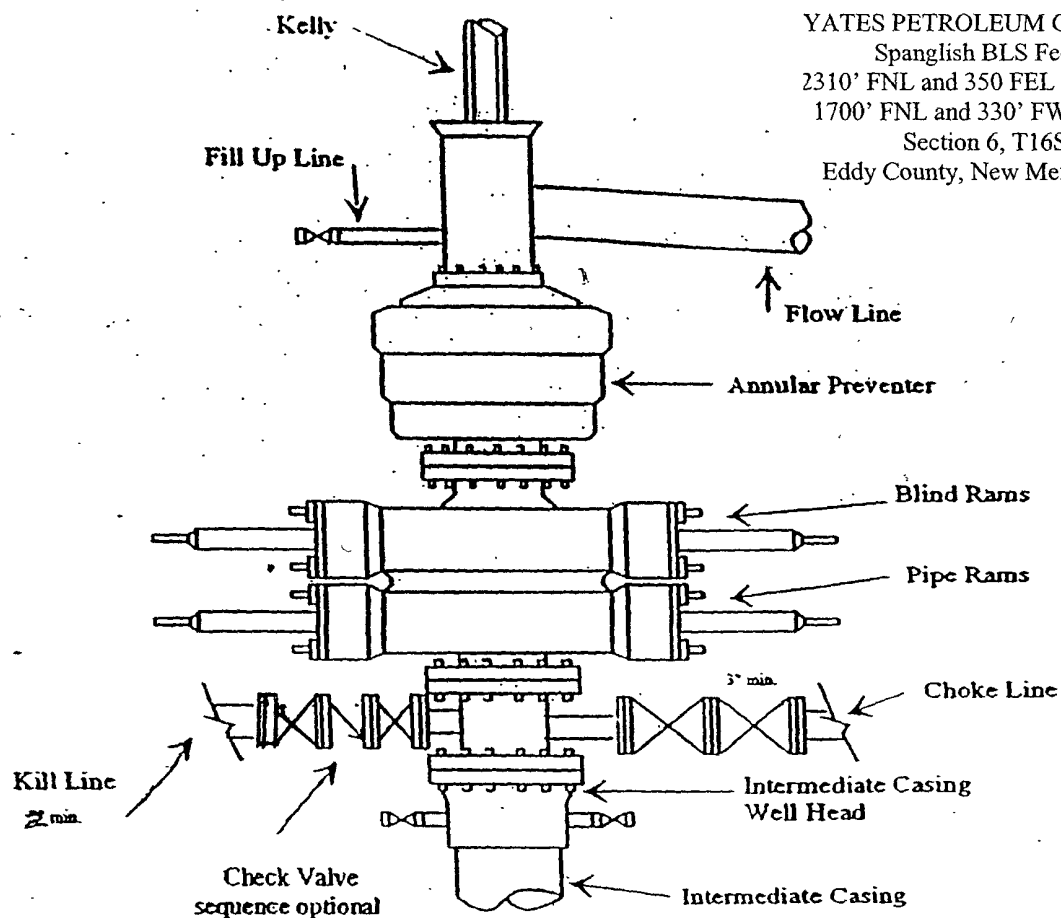




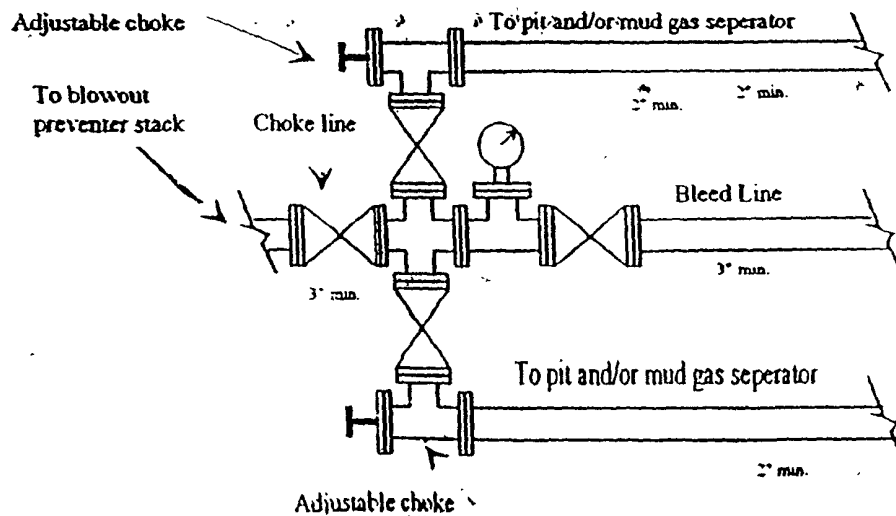
Yates Petroleum Corporation

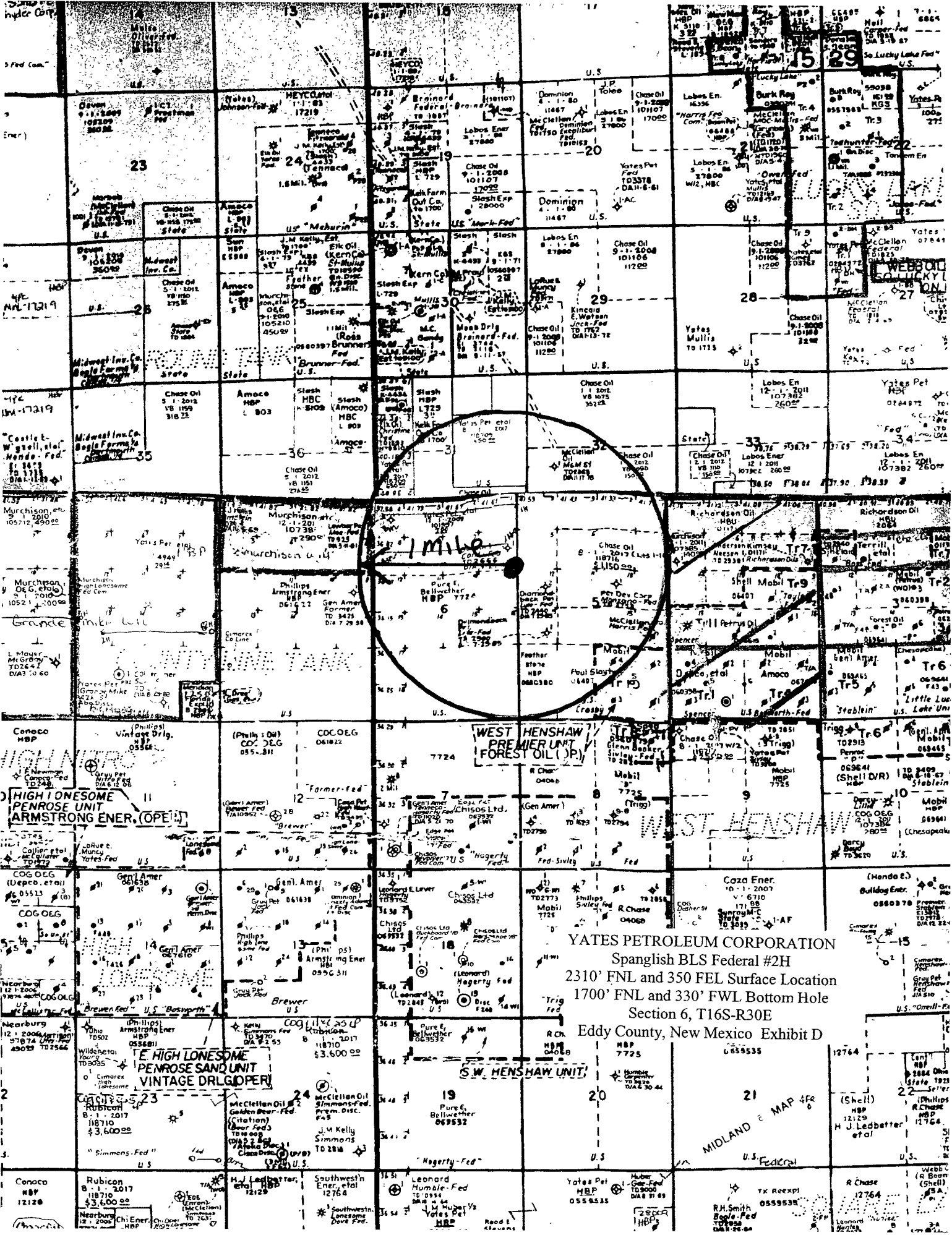
BOP-3

Typical 3,000 psi Pressure System Schematic Annular with Double Ram Preventer Stack



Typical 3,000 psi choke manifold assembly with at least these minimum features





YATES PETROLEUM CORPORATION
Spanglish BLS Federal #2H
2310' FNL and 350 FEL Surface Location
1700' FNL and 330' FWL Bottom Hole
Section 6, T16S-R30E
Eddy County, New Mexico Exhibit D

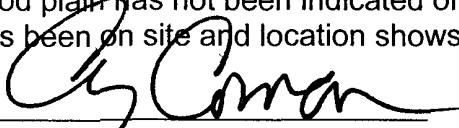
MIDLAND & MAP 4R

Exhibit "A"

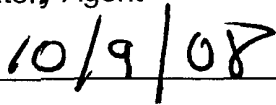
Spanglish BLS Federal #2H - Siting Requirements:

Enclosed herewith are supporting maps and documents to support siting required by 19.15.17.10 NMAC.

Attached is the water data for the area that indicates depth to water is greater than 70 feet (Exhibit B & B-1). From our site inspection of the location there are no continuously flowing watercourse within 300 feet or within 200 feet of any significant watercourse lakebeds, sinkhole or playa lakes. There are no permanent residences, school, hospital, institutions or church in existence within 300 feet or 1000 feet of the location. From iWaters database and visual inspection there are no domestic fresh water wells or springs within 500 horizontal feet or 1000 horizontal feet from the well location (Exhibit B-1). The location is not within the incorporated municipal boundaries or within a defined fresh water well field covered under a municipal ordinance and not within 500 feet of a wetland. There are no subsurface mines overlying the area. 100 year flood plain has not been indicated on the FEMA website. Our Regulatory Agent has been on site and location shows no sign to be prone to flooding.



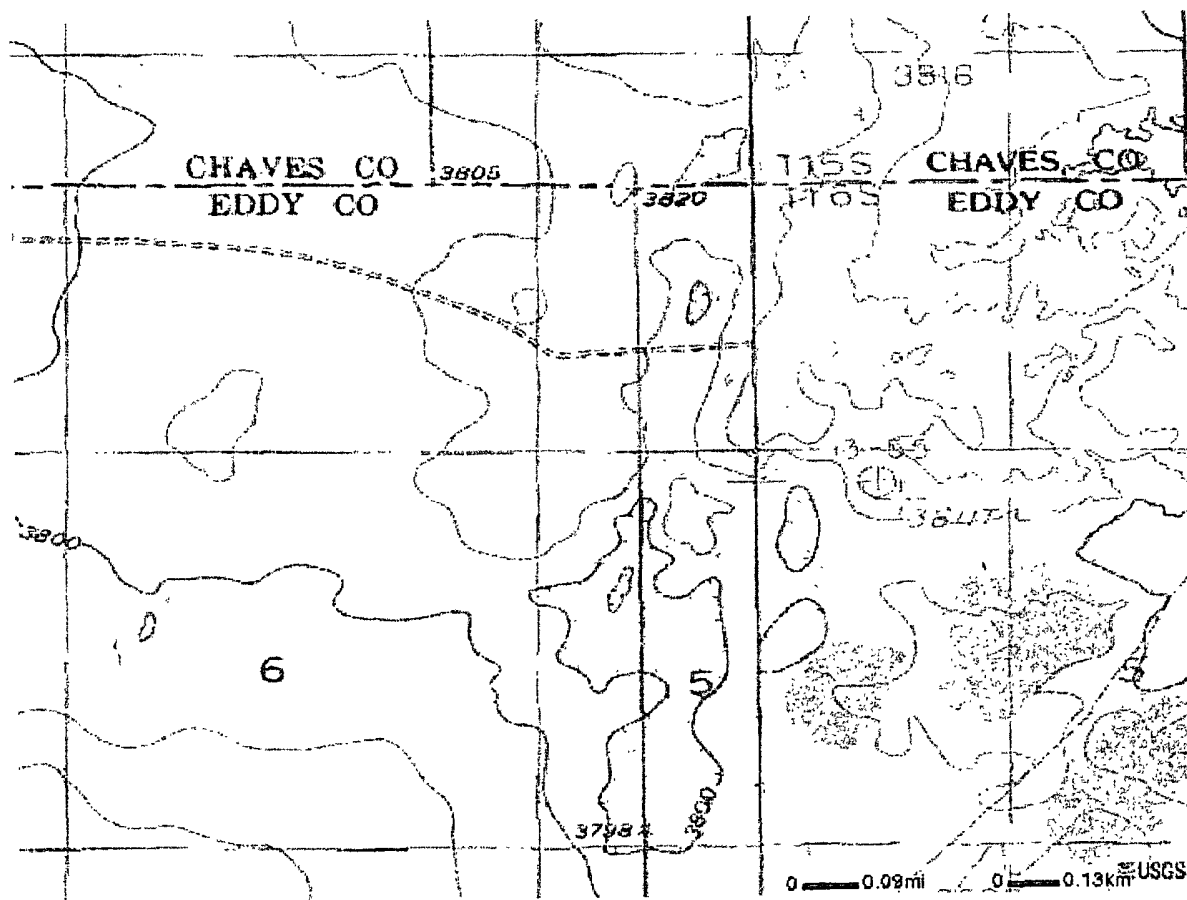
Regulatory Agent



Date

Spanglish BLS Federal #2H
990' FNL and 300' FEL
Section 6, T16S-R30E, Lot 1
Eddy County, New Mexico
Exhibit "A"

Mapping INFORMATION PLATFORM



Legend

















- ☒ Flood Data
 - ☒ FEMA Boundaries
 - ☒ National Flood Hazard Layer
 - ☒ Floodways
 - ☐ Flood Hazard Zone Boundaries
 - ☒ Flood Hazard Zones
 - Zone A
 - Zone AE
 - Zone AH
 - Zone AO
 - Zone AR
 - Zone AS
 - Zone V
 - Zone VE
 - Zone D
 - 0.2% Annual Chance Flood Hazard Zone
- ☒ General Structures
 - Culverts
 - Flood Bridges
 - Dams
 - Levees
 - Wing Walls
- ☒ Cross Section Lines
 - Cross Section with NAVD83 datum
 - Cross Section with NAD83 datum
 - Cross Section with other datum
- ☒ Base Flood Elevation
 - BFE with NAVD83 datum
 - BFE with NAD83 datum
 - BFE with other datum
- ☒ Bench Marks
- ☒ DFIRM Panels
- ☒ LOMR's
- ☒ LOMA and LOMR-F (incomplete data before 2000, locations approximate)
- ☐ Q3 Layers
- ☒ Imagery
- ☒ Basemap Layers



Spanglish BLS Federal #2H
990' FNL and 300' FEL
Section 6, T16S-R30E, Lot 1
Eddy County, New Mexico
Exhibit "A-1"

CGIS
Cooperative Geographic Information System

Map Legend

-  Pecos River
-  Section
-  Township
- Roads**
 -  2 LANE
 -  4 LANE
 -  CANAL
 -  PRIVATE
 -  RAILROAD
 -  TRAIL
- FEMA**
 -  A
 -  AE
 -  AH
 -  AO D1
 -  AO D2
 -  Flood Way AE
 -  X 500

20' Contours

- 2860 - 3100
- 3101 - 3420
- 3421 - 3700
- 3701 - 4060
- 4061 - 4380
- 4381 - 4700
- 4701 - 5000
- 5001 - 5320
- 5321 - 5640
- 5641 - 5960
- 5961 - 6300
- 6301 - 6700
- 6701 - 7100
- 7101 - 7480

Spanglish BLS Federal #2H
990' FNL and 300' FEL
Section 6, T16S-R30E, Lot 1
Eddy County, New Mexico
Exhibit "A-2"

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 16S Range: 30E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic
☒ All

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

iWATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 10/09/2008

(Depth Water in Feet)

Bsn	Tw	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
-----	----	-----	-----	------	---	---	-------	-----	-----	-----

No Records found, try again

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 16S Range: 29E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic
☒ All

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

iWATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 10/09/2008

(Depth Water in Feet)

Bsn	Tw	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
RA	16S	29E	19				1	110	110	110

Record Count: 1

ChevronTexaco

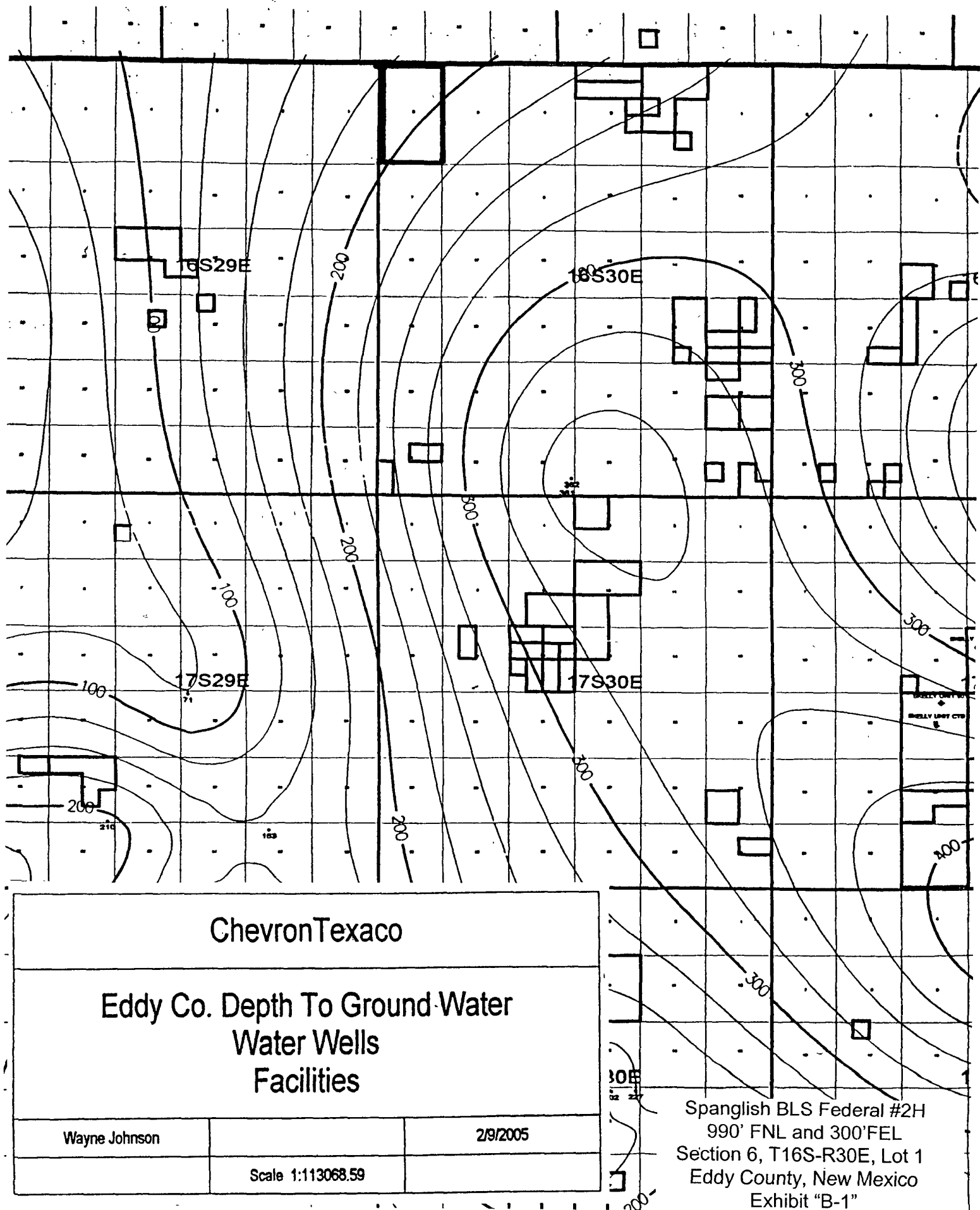
Eddy Co. Depth To Ground Water
Water Wells
Facilities

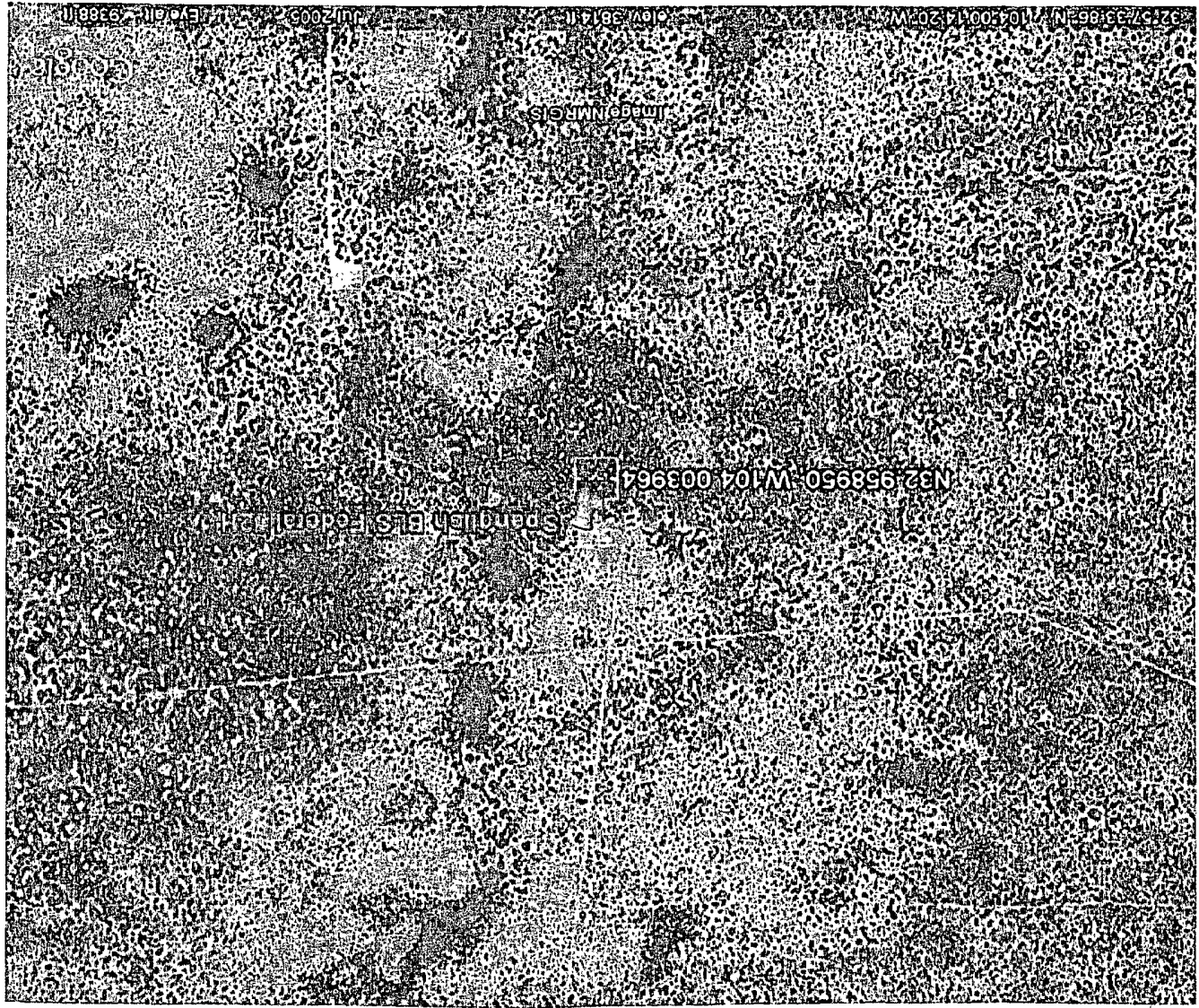
Wayne Johnson

2/9/2005

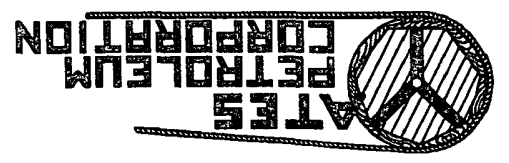
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Spanish BLS Federal #2H
990' FNL and 300' FEL
Section 6, T16S-R30E, Lot 1
Eddy County, New Mexico
Exhibit "B-1"





Spanglish BLS Federal #2H
990' FNL and 300' FEL
Section 6, T16S-R30E, Lot 1
Eddy County, New Mexico
Exhibit "C-1"



Yates Petroleum Corporation

Design Requirements For Temporary Reserve Pit

Sign posted on site / location or on the fence of reserve pit identifying the operator, listing their phone #, location of site by $\frac{1}{4}$ / $\frac{1}{4}$ or unit letter, and S- T- R.

Pit must be fenced to prevent unauthorized access. Fence must remain in good repair. The fence to be barbed wire, space at 1 foot intervals from 1' to 4' off ground. Pit will be fenced on 3 sides during drilling; the 4th side will be fenced upon removal of drilling rig.

Slope of the pit walls is no greater than two horizontal feet to one vertical foot.

Welded liner seams must run up & down the banks of the pit, not horizontally across them.

Field seams must be welded.

Edges of the liner must be anchored in trenches at least 18 inches deep. Edge of liner will protrude from the outside edge of the trench.

Pit shall be designed to prevent to run on of surface water.

Spanglish BLS Federal #2H
990' FNL and 300' FEL
Section 6, T16S-R30E, Lot 1
Eddy County, New Mexico
Exhibit "D"

Yates Petroleum Corporation

Drilling Operations Requirements for Temporary Reserve Pit

While the drilling rig is onsite, Operator's representative will inspect the temporary pit daily to ensure that the liner is intact, and that no releases are occurring. Thereafter, the operator shall inspect at least once weekly as long as liquids remain in the temporary pit. Operator will maintain a log of such inspections and make the log available to the appropriate NMOCD District office upon request.

A copy of the inspection log shall be filed with the NMOCD when operator closes the pit.

Operator must notify NMOCD if liner is damaged, and must repair or replace the damaged liner. Operator has 48 hours to notify NMOCD and make repairs.

NO HOLES in pit liners – not even in the part of the liner that is not in the reserve pit .

All drilling fluids to be removed from temporary pit within 30 days of rig release date

Hydrocarbon based drilling fluids will be stored in steel pits.

Liner –will be 20mil.,string reinforced with welded seams.

Fluids to be added to pit through a header, diverter, or other hardware that prevents damage to liner by erosion, fluid jets, or impacts from installations and removal of hoses or pipes.

Operator shall have onsite an oil absorbent boom or other device to contain and remove oil from a pits surface.

Operator must maintain a freeboard of at least two feet for a temporary pit.

Pit will be bermed to prevent run on of water into the pit.

Safety:

With the use of a temporary pit operator is better able to conduct flammable and dangerous fluids further away from rig personnel and well bore.

Spanglish BLS Federal #2H
990' FNL and 300'FEL
Section 6, T16S-R30E, Lot 1
Eddy County, New Mexico
Exhibit "E"

Closure Procedure For Temporary Drilling Pits

1. De-water pit within 30 days of rig release.
2. Weekly inspection of fluid level in drilling pit after rig release date until fluids are removed. Weekly levels will be recorded in a log to be submitted to the appropriate OCD district office at time of pit closure.
3. All removed pit fluids will be disposed of in an OCD approved manner at one of the listed OCD approved disposal facilities.

Disposal Facility: Gandy Marley NM-01-0019
 Lea Land Farm WM-1-035
 CRI R-9166

4. If fluids are reclaimed the appropriate OCD district office will be contacted beforehand for approval to do so.
5. Within 6 months of the rig release date and after the removal of all free liquids from the temporary drilling pit, the surface owner will be notified by certified mail, return receipt requested that the operator will close the pit. OCD division office will be notified verbally that waste excavation and removal will begin.
6. All impacted contents of the temporary drilling pit will be stabilized by mixing of dry non-waste containing earthen material so that such material will pass a paint filter test.
7. All stabilized pit contents, including the synthetic pit liner will be loaded into trucks and transferred to the division-approved facility listed below for proper disposal.

Disposal Facility: Gandy Marley NM-01-0019
 Lea Land Farm WM-1-035
 CRI R-9166

8. Once all visually impacted materials have been removed from the temporary drilling pit, testing and analyzing of the soils beneath the pit will be conducted in accordance with 19.15.17.13, B., 1(b) (i) or (ii) whichever is appropriate to determine if a release has occurred during utilization of the pit.

Spanglish BLS Federal #2H
990' FNL and 300' FEL
Section 6, T16S-R30E, Lot 1
Eddy County, New Mexico
Exhibit "F"

9. When analysis indicates that the soils within the pit area are within the recommended actions levels backfilling will begin.
10. Backfill material will consist of non-waste containing earthen material. The cleaned out drilling pit will be filled with such material to a level which shall allow space for the addition of topsoil which will be equal to the thickness of the background topsoil or one foot whichever is greater as directed in 19.15.17.13, H (1) NMAC.
11. The topsoil cover will be placed on to the drilling pit area in a manner of existing grade and will prevent ponding of water and erosion of the cover material.
12. Within 60 days of closure completion a closure report on form C-144 will be submitted to the appropriate district office. The report will contain detailed information on the backfilling, capping. The closure report will also include a plat of the closed pit location on a form C-105.
13. Within the first growing season after the approved pit closure seeding of the pit area shall occur. The seeding will be performed in accordance with 19.15.17.13, I, (2) (3) (4) (5).

MULTI-POINT SURFACE USE AND OPERATIONS PLAN
Yates Petroleum Corporation
Spanglish BLS Federal #2H
2310' FNL and 350' FEL, 6-16S-30E (Surface Hole Location)
1700' FNL and 330' FWL, 6-16S-30E (Bottom Hole Location)
Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

Exhibit A is a portion of the BLM map showing the well and roads in the vicinity of the proposed location. The proposed well site is located approximately 9.7 miles north of Loco Hills, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go east of Artesia, NM on highway 82 to Loco Hills, NM. Turn north at Loco Hills on the Hagerman cutoff for approximately 8.6 miles to Booger Langston Road. Continue going north on Hagerman Cutoff for approximately 1.1 miles more. There will be a Chaves Co. line marker and a lease road to the left. Turn left here on lease road and go approximately 1 mile. There will be a faint two track road going to the left. (Flags in the bushes). Turn left on two track and go approximately 0.7 of a mile to the proposed Spanglish BLS Federal #1H. From here continue south on the two track road for approximately .1 of a mile to the southwest corner of the proposed Spanglish BLS Federal #2H well location. Please note part of the road has a berm across it and has been reclaimed.

2. PLANNED ACCESS ROAD:

- A. The proposed new road will go south for about 0.8 of a mile to the southwest corner of the drilling pad.
- B. The new road will be 14' in width (driving surface) and will be adequately drained to control runoff and soil erosion.
- C. The new road will be bladed with drainage on one side. Three traffic turnouts may be built if needed.
- D. The route of the road is visible.
- E. Existing roads will be maintained in the same or better condition.

3. LOCATION OF EXISTING WELL

- A. There is drilling activity within a one-mile radius of the well site.
- B. Exhibit D shows existing wells within a one-mile radius of the proposed well site.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. There are no production facilities on this lease at the present time.
- B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive oil, a gas or diesel self-contained unit will be used to provide the necessary power until an electric power line can be built if needed.

5. LOCATION AND TYPE OF WATER SUPPLY:

- A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from commercial sources and will be hauled to the location by truck over the existing and proposed roads shown in Exhibit A.

6. SOURCE OF CONSTRUCTION MATERIALS:

The dirt contractor will acquire any materials from the closest source at the time of construction of the well pad.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. The temporary drilling pit will be constructed, maintained, and closed in compliance with the State of New Mexico, Energy and Natural Resources Department, Oil Conservation Division – the “Pit Rule” 19.15.17 NMAC.
- C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not approved.

8. ANCILLARY FACILITIES: None

9. WELLSITE LAYOUT:

- A. Exhibit C shows the relative location and dimensions of the well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach.
- B. The temporary drilling pit will be constructed, maintained and closed in compliance with the State of New Mexico, Energy and Natural Resources Department, Oil Conservation Division—the “Pit Rule” 19.15.17 NMAC. Form C-144 attached.
- C. A 600' x 600' area has been staked and flagged.

10. PLANS FOR RESTORATION

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the well site in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have dried and been leveled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled level within 90 days after abandonment.

11. SURFACE OWNERSHIP: Federal Surface leased for grazing.

12. OTHER INFORMATION:

- A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
- B. The primary surface use is for grazing.

13. OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval:

Cy Cowan, Regulatory Agent
Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210
Phone (575) 748-4372

B. Through Drilling Operations,
Completions and Production:
Paul Ragsdale,
Operations Manager
Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210
Phone (575) 748-1471

CERTIFICATION
YATES PETROLEUM CORPORATION
Spanglish BLS Federal #2H

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; and an someone under employment of Yates Petroleum Corporation has full knowledge of state and federal laws applicable to this operation; that the statements made in this 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 16th day of October 2008

Signature 

Name Cy Cowan

Position Title Regulatory Agent

Address 105 South Fourth Street, Artesia, New Mexico 88210

Telephone ⁵⁷⁵
(505) 748-4372

Field Representative (if not above signatory) Tim Bussell, Drilling Supervisor

Address (if different from above) Same as above.

Telephone (if different from above) ⁵⁷⁵
(505) 748-4221

E-mail (optional) _____

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

S.P. YATES
CHAIRMAN EMERITUS

JOHN A. YATES
CHAIRMAN OF THE BOARD

FRANK YATES, JR.
PRESIDENT

PEYTON YATES
DIRECTOR

JOHN A. YATES, JR.
DIRECTOR

As per BLM instructions, Yates Petroleum Corporation is tendering the \$4,000.00 APD Processing Fee for the Spanglish BLS Federal #2H, APD date submitted: October 9, 2008, Section 6, Township 16 South, Range 30 East, Eddy County, New Mexico.

Please be advised we are tendering this fee under protest as we believe it contradicts language in the Energy Policy Act of 2005 signed by President Bush.

RANDY G. PATTERSON
SECRETARY

DAVID LANNING
CHIEF OPERATING OFFICER

DENNIS G. KINSEY
TREASURER

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Yates Petroleum Corp
LEASE NO.:	NM-101597
WELL NAME & NO.:	2H-Spanglish BLS Fed
SURFACE HOLE FOOTAGE:	2310' FNL & 350' FEL
BOTTOM HOLE FOOTAGE:	1700' FNL & 330' FWL
LOCATION:	Section 6, T. 16 S., R 30 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☒ **Special Requirements**
 - Lesser Prairie Chicken
- ☐ **Construction**
 - Notification
 - Topsoil
 - Reserve Pit
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- ☐ **Road Section Diagram**
- ☒ **Drilling**
- ☐ **Production (Post Drilling)**
 - Well Structures & Facilities
- ☐ **Reserve Pit Closure/Interim Reclamation**
- ☐ **Final Abandonment/Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations. 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

LESSER PRAIRIE-CHICKENS

No surface use is allowed during the following time periods; unless otherwise specified, this stipulation does not apply to operation and maintenance of production facilities.

For the purpose of: Protecting Lesser Prairie-Chickens:

Oil and gas activities, including 3-D geophysical exploration and drilling, will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th, annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (505) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil to be stripped is approximately 8 inches in depth. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. RESERVE PITS

The reserve pit shall be constructed and closed in accordance with the NMOCD rules.

The reserve pit shall be constructed 175' X 150' on the West side of the well pad.

The reserve pit shall be constructed, so that upon completion of drilling operations, the dried pit contents shall be buried a minimum depth of three feet below ground level. Should the pit content level not meet the three foot minimum depth requirement, the excess contents shall be removed until the required minimum depth of three feet below ground level has been met. The operator shall properly dispose of the excess contents at an authorized disposal site.

The reserve pit shall be constructed and maintained so that runoff water from outside the location is not allowed to enter the pit. The berms surrounding the entire perimeter of the pit shall extend a minimum of two (2) feet above ground level. At no time will standing fluids in the pit be allowed to rise above ground level.

The reserve pit shall be fenced on three (3) sides during drilling operations. The fourth side shall be fenced immediately upon rig release.

D. FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (505) 234-5972

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

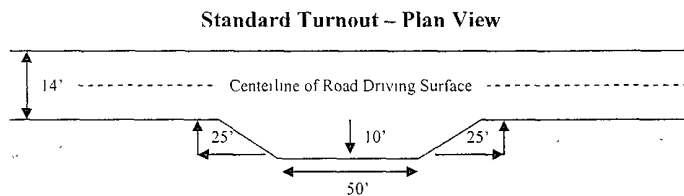
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1, cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

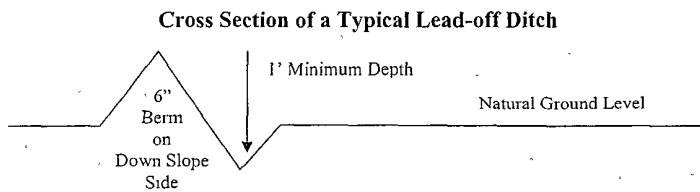
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:



Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outslowing and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

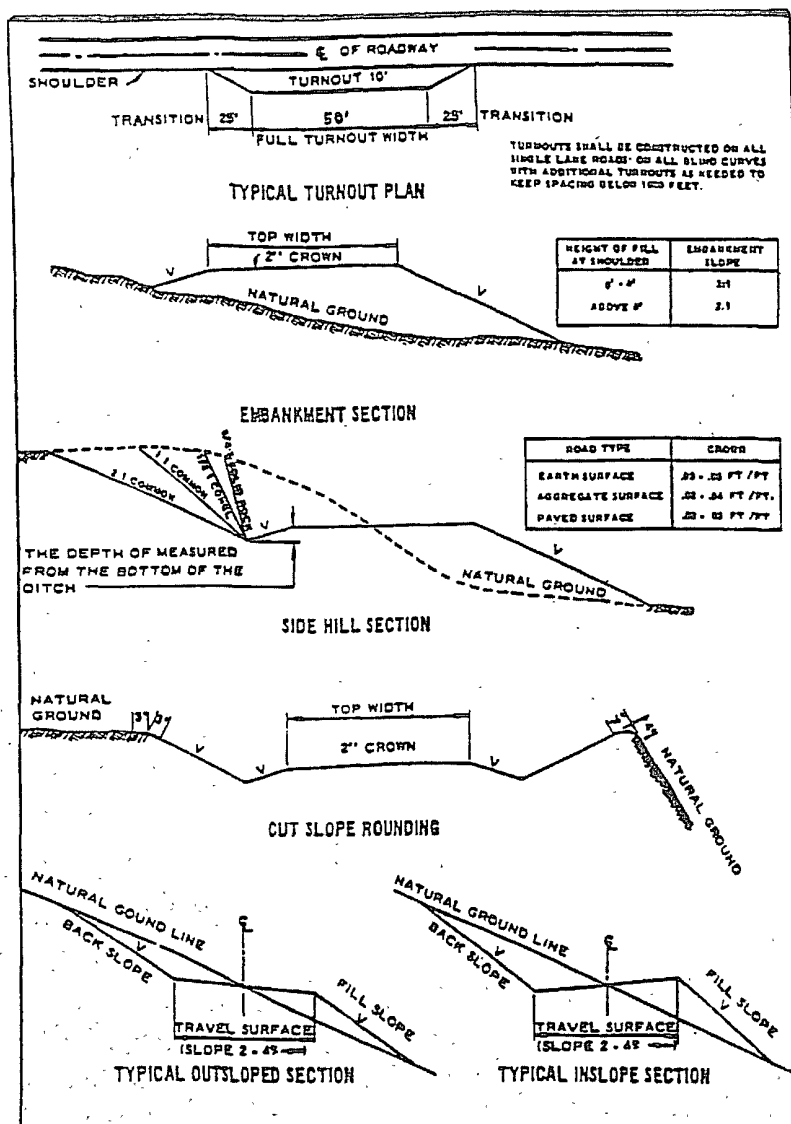
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Figure 1 – Cross Sections and Plans For Typical Road Sections



VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

☒ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. **Although Hydrogen Sulfide has not been reported in this section, it is always a potential hazard. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

**Possible lost circulation in the Grayburg and San Andres formations.
Possible brine/water flows in the Salado and Artesia Groups.**

1. The 11-3/4 inch surface casing shall be set at approximately 400 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - c. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
☒ Cement to surface. If cement does not circulate see B.1.a-c above.

Centralizers required on horizontal leg, must be type for horizontal service and minimum of one every other joint.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
☒ Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.
4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **8-5/8"** intermediate casing shoe shall be **3000 (3M)** psi.
4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
 - e. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.
 - f. **Effective November 1, 2008, no variances will be granted on reduced pressure tests on the surface casing and BOP/BOPE. Onshore Order 2 requirements will be in effect.**

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

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VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color
Shale Green, Munsell Soil Color Chart # 5Y 4/2

IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

At the time reserve pits are to be reclaimed, operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

B. RESERVE PIT CLOSURE

The reserve pit, when dried and closed, shall be recontoured, all trash removed, and reseeded as follows:

Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

**Four-winged Saltbush 5lbs/A

* This can be used around well pads and other areas where caliche cannot be removed.

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed
(Insert Seed Mixture Here)

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.