

N.M. Oil Cons. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 09 2005

OOD-ARTESIA

0
OMB No. 1004-0136
Expires November 30, 2000

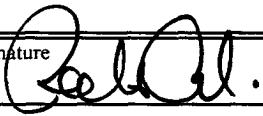
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input type="checkbox"/> DRILL <input checked="" type="checkbox"/> REENTER		5. Lease Serial No. NM92155
b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name Not Applicable
2. Name of Operator Yates Petroleum Corporation		7. If Unit or CA Agreement, Name and No. Not Applicable
3A. Address 105 South Fourth Street Artesia, New Mexico 88210	3b. Phone No. (include area code) (505) 748-1471	8. Lease Name and Well No. Luminary BAU Federal Com. #1
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNW 660' FNL and 660' FWL, Unit D At proposed prod. Zone same as above		9. API Well No. 30-005-60627
14. Distance in miles and direction from nearest town or post office*		10. Field and Pool, or Exploratory Wildcat Ordovician - Devonian
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in lease 1240	11. Sec., T., R., M., or Blk, and Survey or Area Section 35, T11S-R26E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 6110' MD	12. County or Parish Chaves County
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3606' GL	22. Approximate date work will start*	13. State NM
23. Estimated duration		

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

25. Signature 	Name (Printed/Typed) Robert Asher	Date 4/12/05
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Title:

Regulatory Agent/Land Department

Approved by (Signature) /S/LARRY D. BRAY	Name (Printed/Typed) LARRY D. BRAY	Date JUN 07 2005
Title Assistant Field Manager, Lands And Minerals	Office ROSWELL 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.

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.

*(Instructions on reverse)

Previously Approved

C144 Attached

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS ATTACHED

APPROVED FOR 1 YEAR

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

WF
Form C-144
March 12, 2004
For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

105 South Fourth Street, Artesia, NM 88210

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ CheckBox1

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: Yates Petroleum Corporation Telephone: 505-748-4376 e-mail address: debbiec@yppcnm.com
Address: 104 South 4th Street, Artesia, New Mexico 88210
Facility or well name: Luminary BAU Federal Com. #1 API #: 30-005-60427 U/L or Qtr/Qtr NWNW Sec 35 T 11S R 26E
County: Chaves Latitude _____ Longitude _____ NAD: 1927 ☐ 1983 ☐ Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

Pit

Type: Drilling ☒ Production ☐ Disposal ☐
Workover ☐ Emergency ☐

Lined ☒ Unlined ☐

Liner type: Synthetic ☒ Thickness 12 mil Clay ☐ Volume _____ bbl

Below-grade tank

Volume: _____ bbl Type of fluid: _____

Construction material: _____

Double-walled, with leak detection? Yes ☐ If not, explain why not. _____

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

Less than 50 feet
50 feet or more, but less than 100 feet
100 feet or more

(20 points)
(10 points)
(0 points)

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NOV 01 2004

OCD-ARTESIA

Venthead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes
No

(20 points)
(0 points)

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet
200 feet or more, but less than 1000 feet
1000 feet or more

(20 points)
(10 points)
(0 points)

Ranking Score (Total Points)

20

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location:

onsite ☐ offsite ☐ If offsite, name of facility _____ (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒, or an (attached) alternative OCD-approved plan ☐.

Date: 10/29/2004

Printed Name/Title Robert Asher/Regulatory Agent

Signature [Signature]

Our certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approved: NOV 8 2004 [Signature]

Printed Name/Title _____

Signature [Signature]

As a condition of approval, if during construction water is encountered or if water seeps in pits after construction the **OCD MUST BE CONTACTED IMMEDIATELY!**

As a condition of approval a detailed closure plan must be filed before closure may commence.

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

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

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised August 15, 2000

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 96061	³ Pool Name Wildcat Ordovician
⁴ Property Code	⁵ Property Name LUMINARY BAU FEDERAL COM.	⁶ Well Number 1
⁷ OGRID No. 025575	⁸ Operator Name Yates Petroleum Corporation	⁹ Elevation 3605.6'

¹⁰ Surface Location

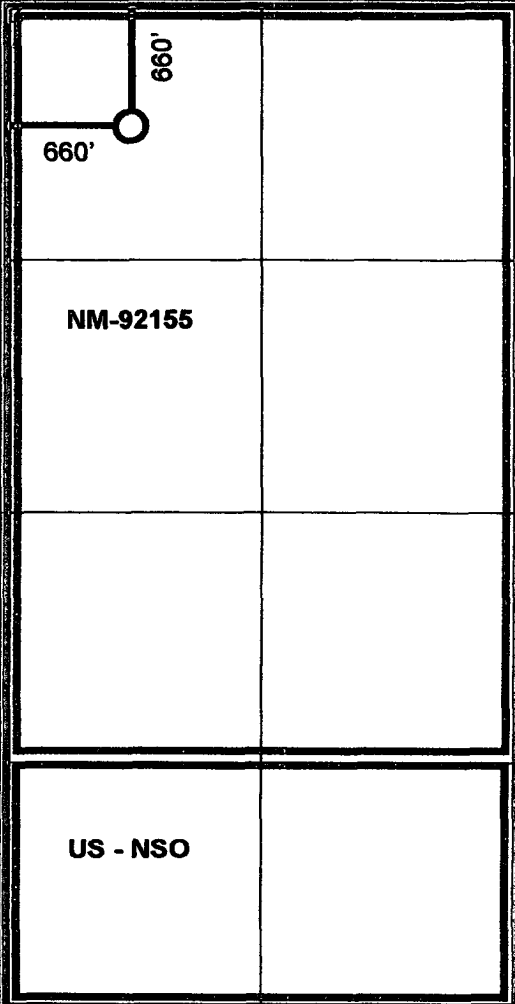
UL or lot no. D	Section 35	Township 11S	Range 26E	Lot Idn	Feet from the 660	North/South line North	Feet from the 660	East/West line West	County Chaves
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 320 W/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Robert Asher</i></p> <p>Signature</p> <p>Robert Asher</p> <p>Printed Name</p> <p>Regulatory Agent</p> <p>Title</p> <p>04/12/2005</p> <p>Date</p> <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>REFER TO ORIGINAL PLAT</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p>Certificate Number</p>
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MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
 Supervisors C-128
 Effective 1-4-65

All distances must be from the outer boundaries of the Section

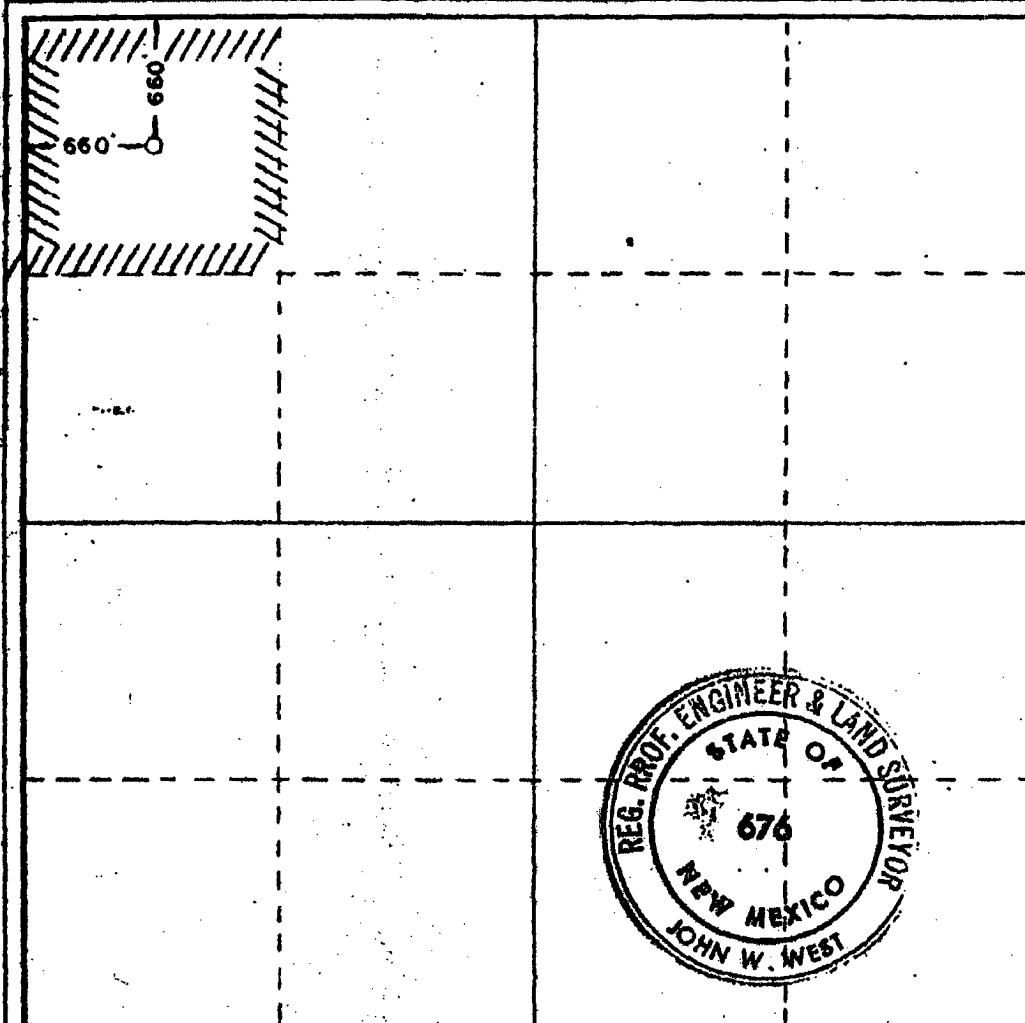
Operator Sundance Oil Company			Lease Federal 35		Well No. 1
Unit Letter D	Section 35	Township 11 South	Range 26 East	County Chaves	
Actual Footage Location of Well:					
660	feet from the	North	line and	660	feet from the
Ground Level Elev. 3605.6		Producing Formation Montoya	Pool LUISCAT Un-estimated	Estimated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc.
☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated (if any) on the side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

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DEC 7 1979
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

James F. O'Briant
James F. O'Briant

Position

Consultant

Company

Sundance Oil Company

Date

December 4th, 1979

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 knowledge and belief.

Date Surveyed

November 24, 1979

Registered Professional Engineer and/or Land Surveyor

John W. West
 Certificate No. **John W. West** **676**
Ronald J. Eidson **3239**

YATES PETROLEUM CORPORATION

Luminary BAU Federal Com. #1 Re-entry

660' FNL & 660' FWL

Section 35-T11S-R26E

Chaves County, New Mexico

Lease #NM-92155

Originally Sundance Oil Company – Johnston Federal #1
D&A 1/27/1980

Yates' plan is to re-enter the well with a pulling unit and a reverse unit to drill out cement plugs in the 8 5/8" casing and the 7 7/8" open hole & clean out down to the old TD @ 6,110'. Mud to be used is 9.2 – 9.5 ppg brine water, 55 – 70 vis. After circulating the hole clean a string of 5 1/2" casing will be run to 6,110' and cemented with enough cement to bring the top of cement to 3,500'+/-.

The well will be completed with a pulling unit. Possible formations to be completed will be the Ordovician @ 5,950'+/- or the Wolfcamp @ 5,300'+/-.

LUMINARY BAK EPERM COM #

WELLNAME: Johnston Federal 1 (Sundance) FIELD: Wildcat

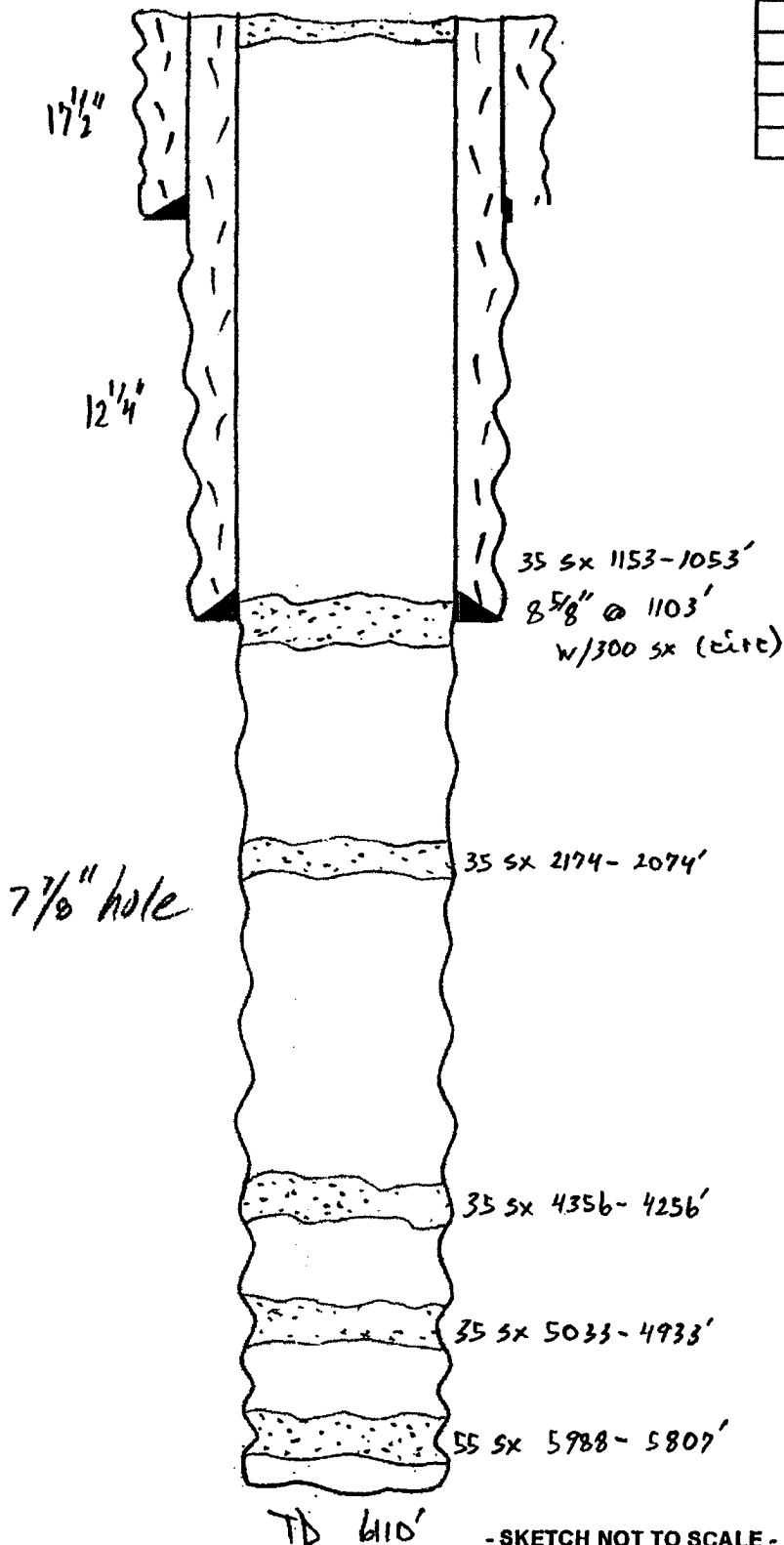
LOCATION: 660' FN + 660' FN D 35-115-26E Chaves County

GL: 3606' ZERO: _____ AGL: _____ KB: 3616'

SPUD DATE: 12-31-79 COMPLETION DATE: 1-27-80

COMMENTS: DATA

CASING PROGRAM	
SIZE/WT/GR/CONN	DEPTH SET
13 1/8" 48.2, H-40, STLC	295'
8 5/8" 24#, J-55, STLC	1103'



before

Tops: Queen	325'
Penrose	413'
San Andres	845'
Glorieta	2031'
Yeso	2124'
Tubb	3544'
Albo	4306'
Wolfcamp	5134'
Cisco	5630'
Montoya	5882'
MPZ	5938'
Hitenburger	5989'

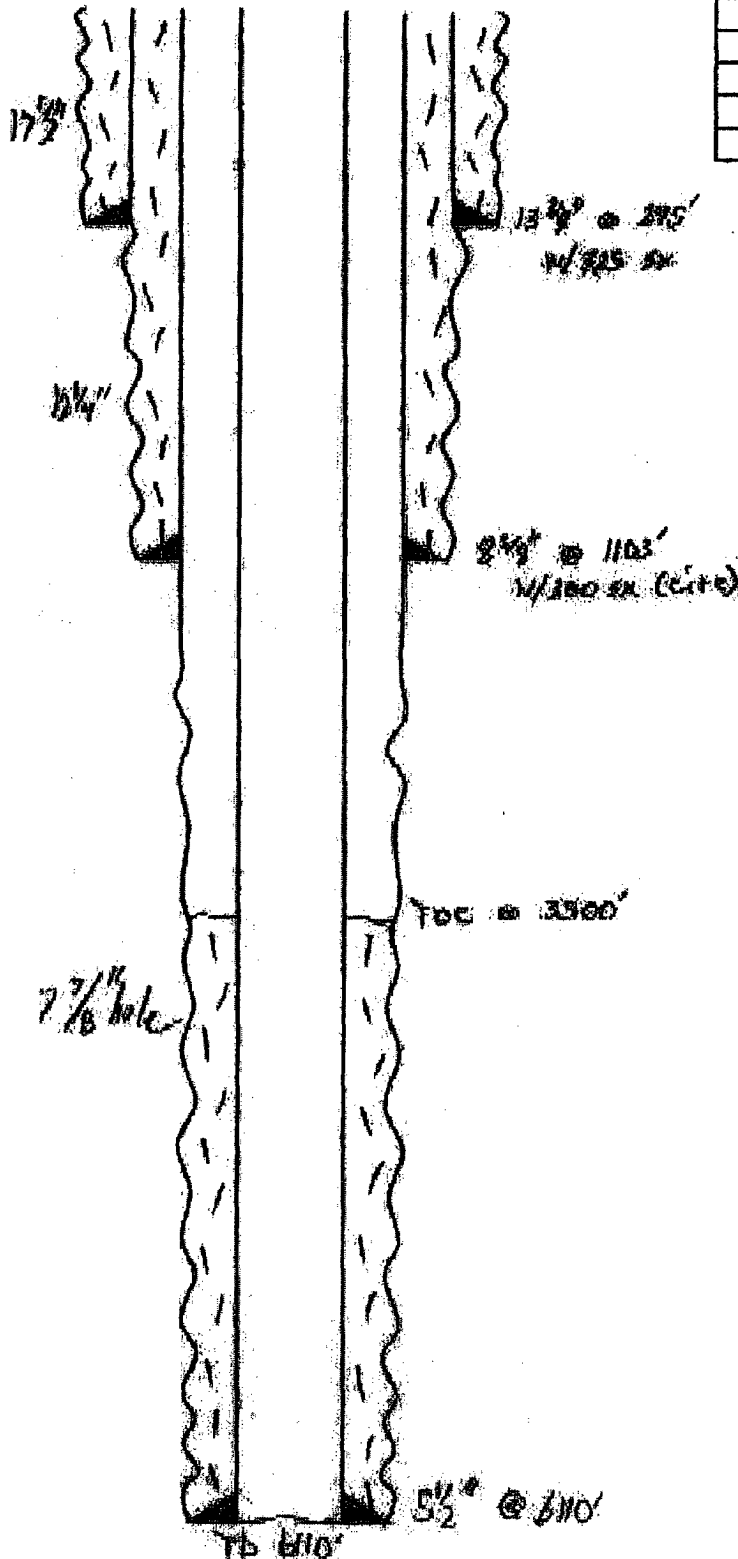
- SKETCH NOT TO SCALE -

DATE: 1-26-01 SD

LUMINARY BAU FE 2AC Com #:

WELLNAME: Johnston Federal 1 FIELD: Wildcat
 LOCATION: 660' FN + 660' FW D 35-115-26E Chaves County
 GL: 3606' ZERO: _____ .AGL: _____ KB: 3616'
 SPUD DATE: _____ COMPLETION DATE: _____
 COMMENTS: _____

CASING PROGRAM	
SIZE/WT/GR/CONN	DEPTH SET
13 7/8" 48# H-90 STAC	295'
8 5/8" 24# J-55 STAC	1103'
5 1/2" 15.50 #API J-55 STAC	6110'



After

- SKETCH NOT TO SCALE -

DATE: 1-26-01 SS

YATES PETROLEUM CORPORATION
Luminary BAU Federal Com. #1 Re-entry
 660' FNL and 660' FWL
 Section 35-T11S-R26E
 Chaves County, New Mexico

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

Queen	405'	Spear Zone	5350'
San Andres	930'	Cisco	5550'
Glorieta	2065'	Strawn	5780'
Yeso	2225'	Siluro-Ordovician	5830'
Tubb	3650'	Pre-Cambrian	6105'
Abo	4415'	TD	6255'
Wolfcamp	5180'		

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

Water: 150'-200'
 Oil or Gas: All potential zones.

3. Pressure Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 2000 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)

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt./Ft</u>	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>
12 1/4	8 5/8"	24#	J-55	ST&C	0-1000'
7 7/8"	5 1/2"	15.5#	J-55	ST&C	0-6255'

existing
 1103'

1. Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Tensile Strength 1.8
 2. Yates Petroleum Corporation requests that a variance be granted in requiring the casing and BOPE to be tested to 2000 PSI to testing the casing and BOPE to 1000 PSI. The rig pumps will be used to test the casing and BOPE. Rig pumps used in this area cannot safely test above 1000 PSI. We would have to go to the greater expense of hiring an independent service to do the testing. Also, the maximum shut-in bottom hole formation pressure is 2200 PSI. Pressure at the surface is less than 1000 PSI. We feel that a 1000psi test will demonstrate that the BOPE is functioning properly and in the unlikely event of a gas in flux that the BOPE would be sufficient to control the well.

NO

Luminary BAU Federal Com. #1 Re-entry

Page 2

B. CEMENTING PROGRAM:

Surface Casing: 450 sx Lite "C" (YLD 2.0 WT 12.5). Tail in with 200 sx "C"
+ 2% CaCL₂ (YLD 1.33 WT 15.6).

Production Casing: 600 sx Pecos Valley Lite (YLD 1.34 WT 13.0). TOC 3700'.

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-1000'	FW GEL, Paper, LCM	8.4 - 8.6	32-36	N/C
1000'-4350'	Brine	9.8 - 10.0	28	N/C
4350'-6255'	Starch/Salt Gel	10.0 -10.2	45-50	<6/cc

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' samples out from under surface casing.

Logging: CNL/LDT, W/NGT TD-Surf csg; with CNL/GR up to Surf; DLL/MSFL
TD-Surf csg: BHC Sonic TD-SURF CSG, FMI TD – Top of the Wolfcamp

Coring: Sidewall

DST's: None.

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

Anticipated BHP:

From: 0	TO: 1000'	Anticipated Max. BHP: 500 PSI
From: 1000'	TO: 6255'	Anticipated Max. BHP: 3300 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H₂S Zones Anticipated: None Anticipated

Maximum Bottom Hole Temperature: 110 F

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 25 days to drill the well with completion taking another 20 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN
YATES PETROLEUM CORPORATION
Luminary BAU Federal Com. #1 Re-entry
660' FNL and 660' FWL
Section 35-T11S-R26E
Chaves 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 14 miles north of Dexter, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go to Dexter, NM, at the intersection of State Road 2 and First Street (across from Allsup's). Turn north on First Street (becomes Shawnee) for approx. 2 miles to a "T". Turn east on Wichita Road. Stay on Wichita Road for 2.3 miles to a "Y". Take Wichita Road right and continue for 5.8 miles to stop sign at Bottomless Lakes. Turn right and follow State Road 409 for approx. 2 miles. Turn east 360' to cattle guard with gate (Combination 4202). Continue for approx. 650' and new road will start here and go south for 0.8 of a mile then turn east. Go east for approx. 400' and turn north for 150' to the SE corner of the pad.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 0.9 of a mile in length from the point of origin to the southeast corner of the drilling pad. The road will lie in a south, then east direction, and then north to location.
- B. The new road will be 14 feet in width (driving surface) and will be adequately drained to control runoff and soil erosion.
- C. Existing roads will be maintained in the same or better condition

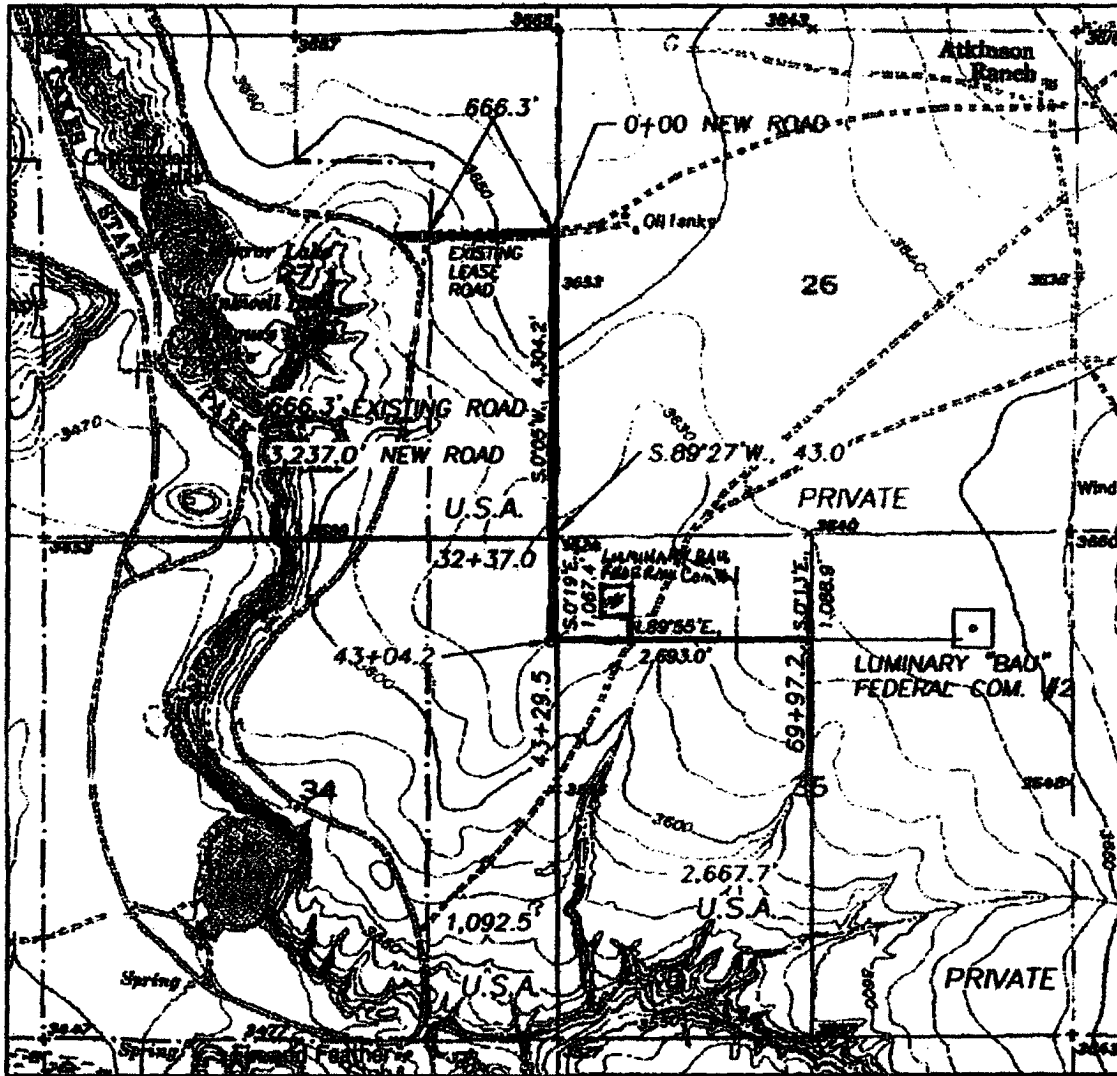
3. LOCATION OF EXISTING WELL:

- A. There is no 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. No power will be required if the well is productive of gas.

SECTION 26, 27, 34, & 35, TOWNSHIP 11 SOUTH, RANGE 26 EAST, NMPM, CHAVES COUNTY, NEW MEXICO.



DESCRIPTION:

A LEASE ROAD RIGHT OF WAY 30 FEET WIDE AND 7,663.5 FEET IN LENGTH, BEING 15 FEET TO THE LEFT AND RIGHT OF THE SURVEY CENTERLINE AS SHOWN ON THIS PLAT.

SECTION 27: 3,903.3 FEET = 236.5636 RODS, 0.7393 MILES OR 2.6882 ACRES, MORE OR LESS.

SECTION 34: 1,092.5 FEET = 66.2121 RODS, 0.2069 MILES OR 0.7524 ACRES, MORE OR LESS.

SECTION 35: 2,667.7 FEET = 161.6788 RODS, 0.5052 MILES OR 1.8373 ACRES, MORE OR LESS.

7,663.5 FEET = 464.4545 RODS, 1.4514 MILES OR 5.2779 ACRES, MORE OR LESS.

Yates Petroleum Corporation
Luminary BAU Federal Com. #1
660' FNL and 660' FWL
Section 35, T11S-R26E
Chaves County, New Mexico
Exhibit "A-2"

1000' 0 1000' 2000'
Scale 1" = 1000'

THE PREPARATION OF THIS PLAT AND THE PERFORMANCE OF THE SURVEY UPON WHICH IT IS BASED WERE DONE UNDER MY DIRECTION AND THE PLAT ACCURATELY REPRESENTS THE RESULTS OF SAID SURVEY AND MEET THE REQUIREMENTS OF THE STANDARDS FOR LAND SURVEYS IN NEW MEXICO AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS.

[Signature]
MERSCHER L. JONES R.L.S. No. 3840

GENERAL SURVEYING COMPANY P.O. BOX 1928
LOVINGTON, NEW MEXICO 88260

YATES PETROLEUM CORP.

LEASE ROAD TO ACCESS THE YATES LUMINARY "BAU" FEDERAL COM. #2 WELL, LOCATED IN SECTION 35, TOWNSHIP 11 SOUTH, RANGE 26 EAST, NMPM, CHAVES COUNTY, NEW MEXICO.

Survey Date: 3/24/2003

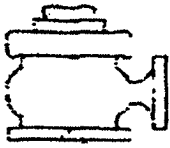
Drawn By: Ed Blivins

Date: 3/24/03

Sheet 2 of 3 Sheets

N.O. Number

Scale 1" = 1000' LUMINARY 2

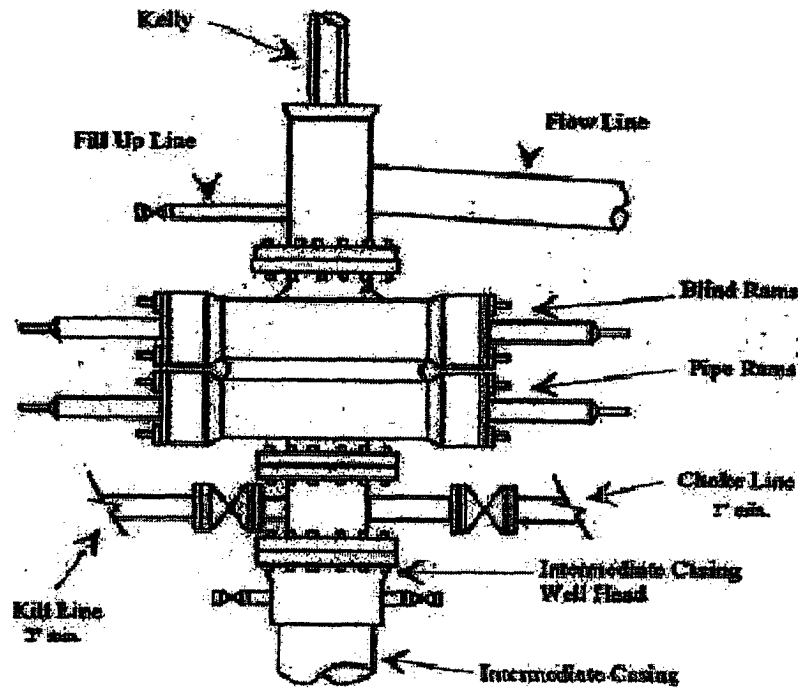


Yates Petroleum Corporation

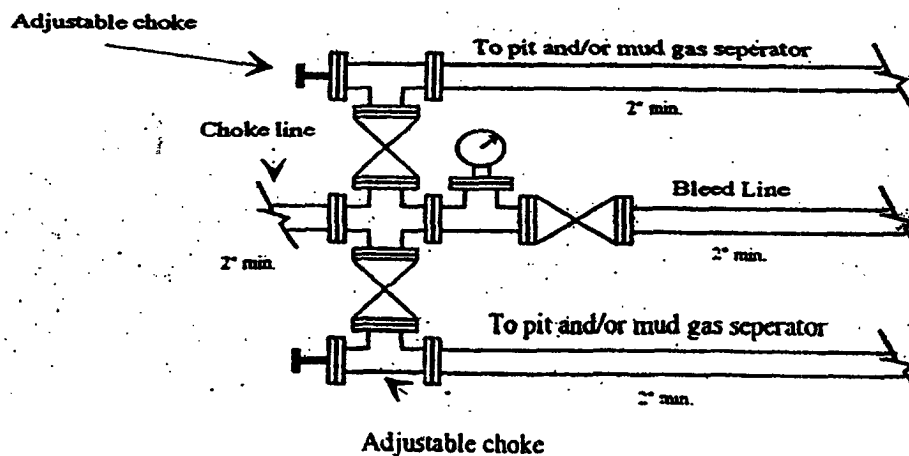
BOP-2

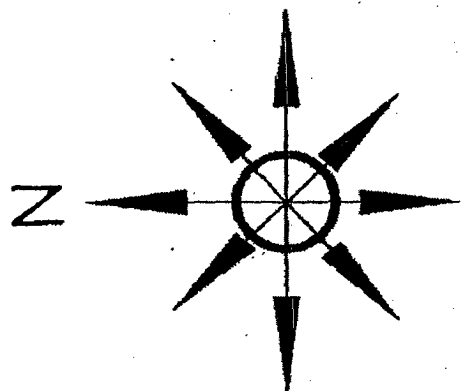
Typical 2,000 psi Pressure System Schematic Double Ram Preventer Stack

Yates Petroleum Corporation
Bureau, B&O Plaza, C-21, 41
6000 INDIANA AVE. FRI
SARDIN, 25, 71, S-RAGE
CHEROKEE COUNTY, New Mexico
86401-98



Typical 2,000 psi choke manifold assembly with at least these minimum features



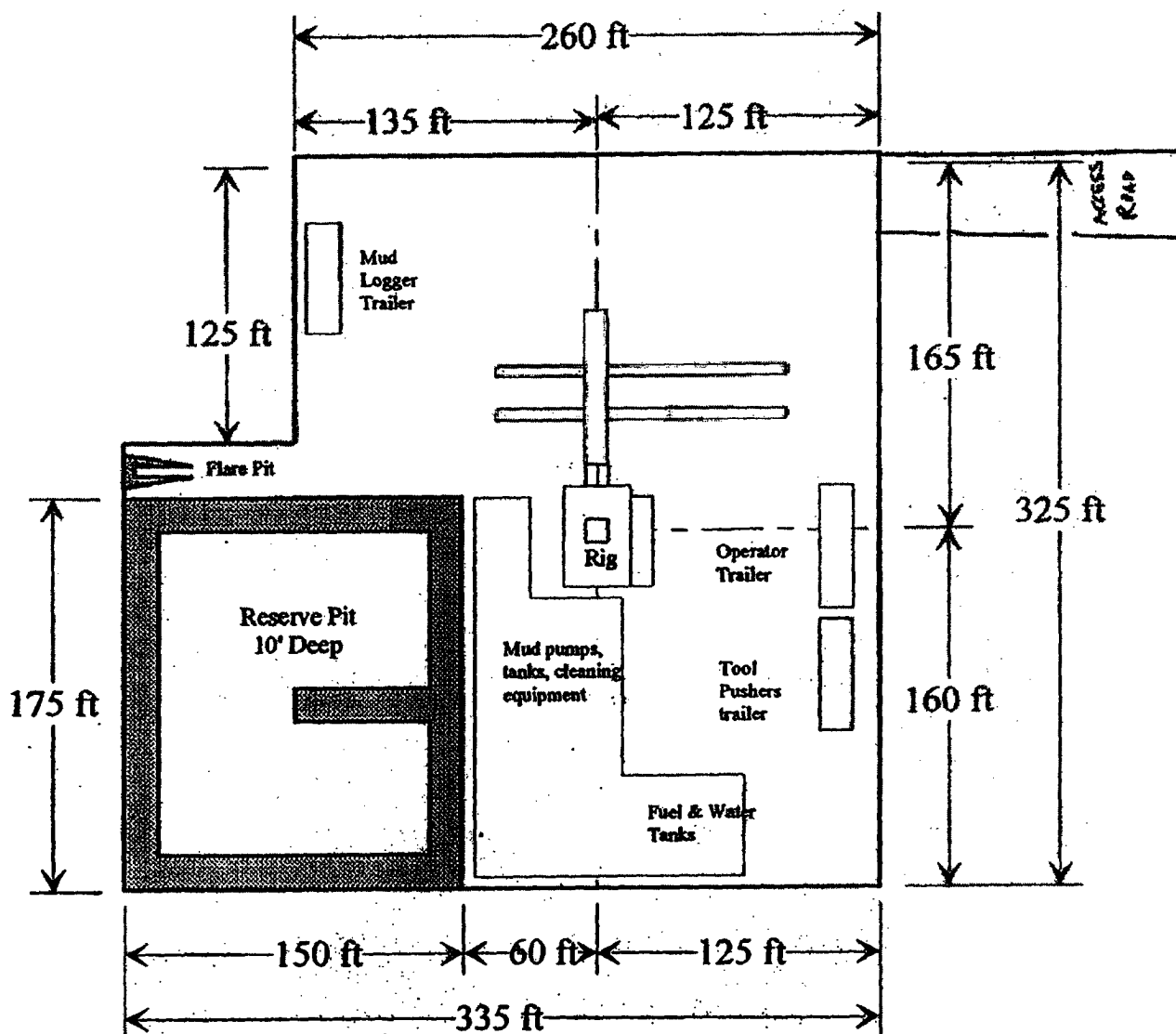


Yates Petroleum Corporation

Location Layout for Permian Basin

Up to 12,000'

Yates Petroleum Corporation
 Luminary BAU Federal Com. #1
 660' FNL and 660' FWL
 Section 35, T11S-R26E
 Chaves County, New Mexico
 Exhibit "C"



Distance from Well Head to Reserve Pit will vary between rigs

The above dimension should be a maximum