

French Dr., Hobbs, NM 88240
Grand Avenue, Artesia, NM 88210
Brazos Road, Aztec, NM 87410
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
Santa Fe, NM 87505

Form C-101
May 27, 2004

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address LATIGO PETROLEUM, INC. P.O. BOX 10340 MIDLAND, TEXAS 79702-7340		2 OGRD Number 227001
		API Number 30 - 015-35267
Property Code 34291	Property Name TWO MARKS "36" STATE	Well No. 5
Proposed Pool 1 INDIAN BASIN UPPER PENN (ASSOC) (33685)		Proposed Pool 2

7 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North-South line	Feet from the	East-West line	County
L	36	21S	24E		1420'	SOUTH	975'	WEST	EDDY

8 Proposed 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
E	36	21S	24E		1980'	SOUTH	660'	WEST	EDDY

Additional Well Information

Work Type Code N	Well Type Code O	Cable/Rotary ROTARY	Lease Type Code S	Ground Level Elevation 3800'
Multiple NO	Proposed Depth MD-9080' TVD-8749'	Formation CISCO-PENN	Contractor UNKNOWN	Spud Date WHEN APPROVED
Depth to Groundwater 100' +		Distance from nearest fresh water well 1.5 Miles Southwest		Distance from nearest surface water Little Walt Canyon 1 Mile
Pit Liner: Synthetic <input checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/>		Pit Volume: 18M bbls		
Closed-Loop System <input type="checkbox"/>		Drilling Method: Fresh Water <input checked="" type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>		

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight foot	Setting Depth	Sacks of Cement	Estimated TOC
26"	17 1/2"	Conductor	40'	Redi-mix	Surface
12 1/4"	9 5/8"	36#	1600'	865 Sx.	Surface
8 3/4"	7"	26#	9080'	850 Sx.	* Est. 1500' FS.

Verify by CBL or Temperature Survey

Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

SEE ATTACHED SHEET

NOTIFY OCD OF SPUD &
TIME TO WITNESS
CEMENTING OF SURFACE &
INTERMEDIATE CASING

Fresh Water Mud to @ 1600'

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input checked="" type="checkbox"/> a general permit <input type="checkbox"/> or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Printed name: Joe T. Janica		Approved by: BRYAN G. ARANT	
Title: Agent		DISTRICT II GEOLOGIST	
E-mail Address: joejanica@valornet.com		Approval Date: DEC 08 2006	
Date: 12/06/06		Expiration Date: DEC 08 2007	
Phone: 505-391-8503		Conditions of Approval Attached <input type="checkbox"/>	

Date: 11/29/2006
Lease: Two Marks 36 State
Well: 5

Location: Surface: 1420 FSL; 975' FWL, Sec 36, T21S, R24E, Eddy Co. NM
Btm Hole: 1980 FNL; 660' FWL, Sec 36, T21S, R24E, Eddy Co. NM
Pool: Indian Basin, Upper Penn Assoc

Anticipated Formation Tops	San Andres	780	Dean	6,950
	Delaware	1,530	Wlf Cmp Lm	7,309
	BS, Lime	3,090	Wlf Cmp Sh	7,402
	1st BS Snd	4,900	Cisco/Canyon	7,905

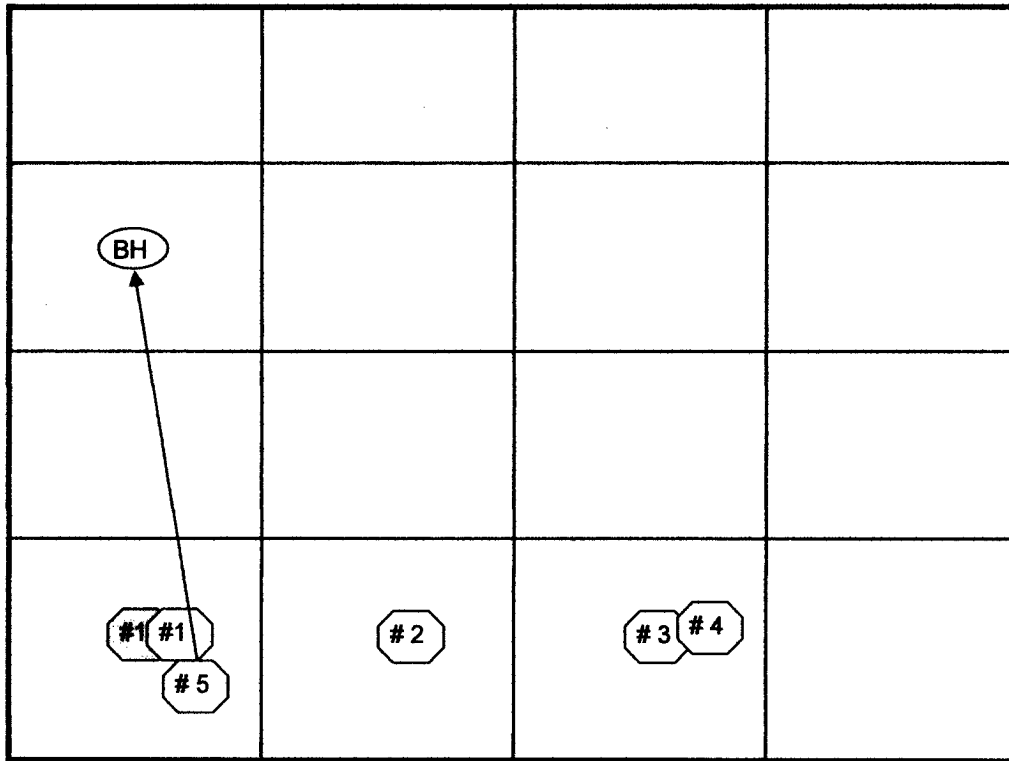
**Proposed
Procedure:**

1. Build Location
2. Use Rat/Mouse hole machine, set 40' of 17 1/2" conductor, cmt to surfac
3. MIRT, spud 12 1/4" hole and air/mist drill to 1600'
4. Run and set Surface csg
 - Casing: 9 5/8", 36 ppf, J55
 - Cement: Lead: 665 sxs, 65/35 Cl C poz
Tail: 200 sxs, Cl C w/ 2% CaCl2
5. Set 3000" WP WHD and test head and BOP prior to drill out.
6. Drill out cmt, drill 8 3/4" hole
7. PU Directional tools and mtr drill w/ fresh water to 7700'
8. Use tools to bring hole vertical from 7700 to T/Cisco
9. Drill Cisco conventional rotation, true vertical
10. Log and run casing and cement.
 - Casing: 7", 26 ppf, L-80
 - Cement: 650 sxs Lite Crete and 200 sxs Cl 'C'

Est. TD: 8750'

Two Marks Well Groupings

Sec 36, T-21-S, R-24-E, Eddy County, New Mexico



Two Marks 36 St # 5	420 FSL & 975 FWL	8750 TVD Proposed Cisco	BHL = 1980 FNL & 660 FWL
Two Marks 36 St # 1	660 FSL & 760 FWL	TD = 8517' Cisco	Cisco Production
Two Marks 36 St # 2	660 FSL & 2080 FWL	TD = 8536' Cisco	Cisco Production
Two Marks 36 St # 3	660 FSL & 1880 FEL	Proposed Cisco	Not Drilled
Two Marks 36 St # 4	670 FSL & 1905 FEL	TD= 12500 Devonian	Devonian SWD
Two Marks 36 St # 1	660 FSL & 660 FWL	TD=10588 Strawn	P&A

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LONG's METHOD OF SURVEY COMPUTATION**OBLIQUE CIRCULAR ARC INTERPOLATION**

0	MD OF INTERPOLATION DEPTH,(feet)
#N/A	TVD COORDINATE OF THE DEPTH (feet)
#N/A	N/S COORDINATE OF DEPTH (feet)
#N/A	E/W COORDINATE OF DEPTH (feet)

3 D DISTANCE BETWEEN STATION A AND STATION B

DISTANCE TABLE

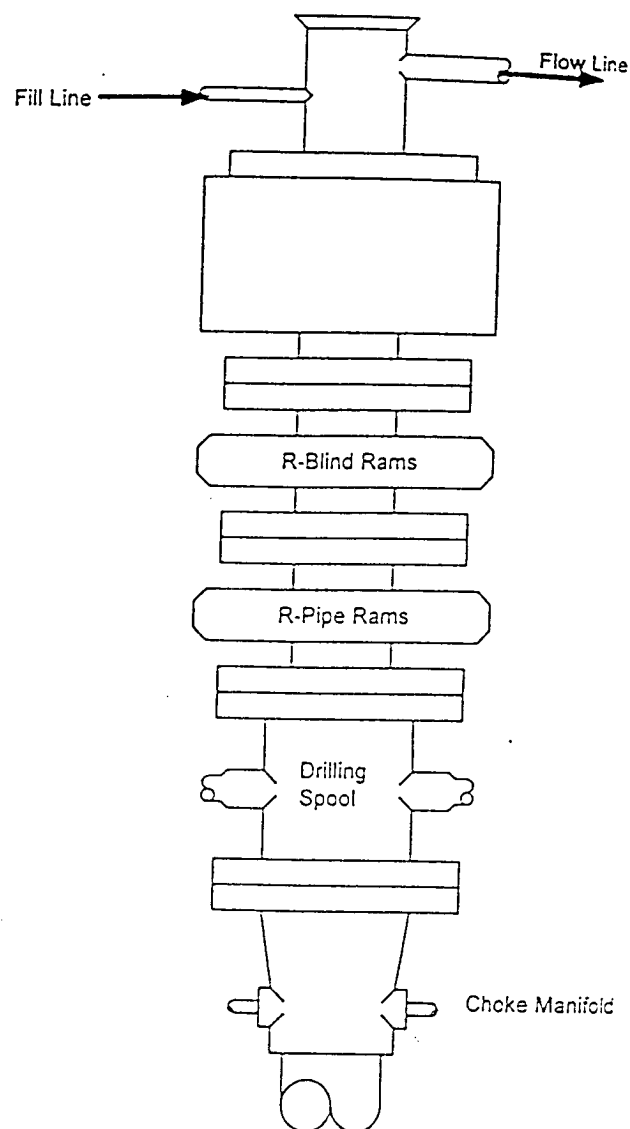
STATION A	STATION B
0.00	ft

Calculator =

TABLE OF SURVEY STATIONS

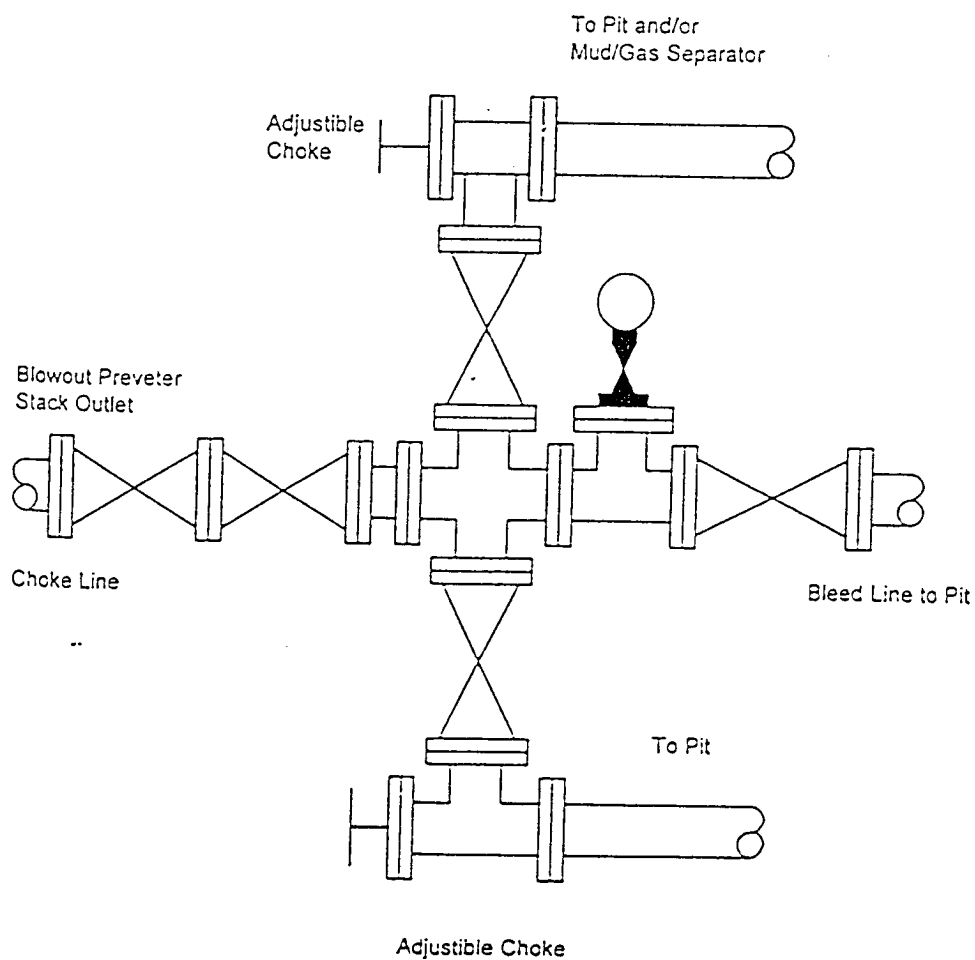
STA #	ΔMD ft	INCL deg	AZIM deg	MD ft	TVD ft	N+S- ft	E+W- ft	DLS deg/100FT
1	TIE POINT =>	0	0	3000.00	3000.00	0.00	0.00	-
2	100	5	350.4883	3100.00	3099.87	4.30	-0.72	5.00
3	100	10	350.4883	3200.00	3198.99	17.17	-2.88	5.00
4	100	15	350.4883	3300.00	3296.58	38.51	-6.45	5.00
5	100	20	350.4883	3400.00	3391.93	68.16	-11.42	5.00
6	100	20	350.4883	3500.00	3485.90	101.89	-17.07	0.00
7	100	20	350.4883	3600.00	3579.86	135.62	-22.72	0.00
8	100	20	350.4883	3700.00	3673.83	169.35	-28.38	0.00
9	50	20	350.4883	3750.00	3720.82	186.22	-31.20	0.00
10	100	20	350.4883	3850.00	3814.79	219.95	-36.85	0.00
11	100	20	350.4883	3950.00	3908.76	253.68	-42.51	0.00
12	100	20	350.4883	4050.00	4002.73	287.41	-48.16	0.00
13	100	20	350.4883	4150.00	4096.70	321.15	-53.81	0.00
14	100	20	350.4883	4250.00	4190.66	354.88	-59.46	0.00
15	100	20	350.4883	4350.00	4284.63	388.61	-65.11	0.00
16	100	20	350.4883	4450.00	4378.60	422.34	-70.76	0.00
17	100	20	350.4883	4550.00	4472.57	456.07	-76.42	0.00
18	500	20	350.4883	5050.00	4942.42	624.73	-104.68	0.00
19	500	20	350.4883	5550.00	5412.27	793.39	-132.94	0.00
20	500	20	350.4883	6050.00	5882.11	962.05	-161.19	0.00
21	500	20	351	6550.00	6351.96	1130.83	-188.70	0.04
22	500	20	351	7050.00	6821.80	1299.74	-215.45	0.00
23	500	20	351	7550.00	7291.65	1468.64	-242.20	0.00
24	500	20	351	8050.00	7761.50	1637.55	-268.96	0.00
25	500	20	351	8550.00	8231.34	1806.45	-295.71	0.00
26	400	7	351	8950.00	8619.46	1898.48	-310.28	3.25
27	130	0	351	9080.00	8749.13	1906.31	-311.52	5.38
28								
29								
30								
31								

BLOWOUT PREVENTER SYSTEM



Type 900 Series
3000 psi WP

Choke Manifold Assembly for 3M WP System



State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT I

1625 N. FRENCH DR., HOBBBS, NM 88240

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

SOIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 33685	Pool Name INDIAN BASIN UPPER PENN ASSOC
Property Code 34291	Property Name TWO MARKS "36" STATE	Well Number 5
OGRID No. 227001	Operator Name LATIGO PETROLEUM, INC.	Elevation 3800'

Surface Location

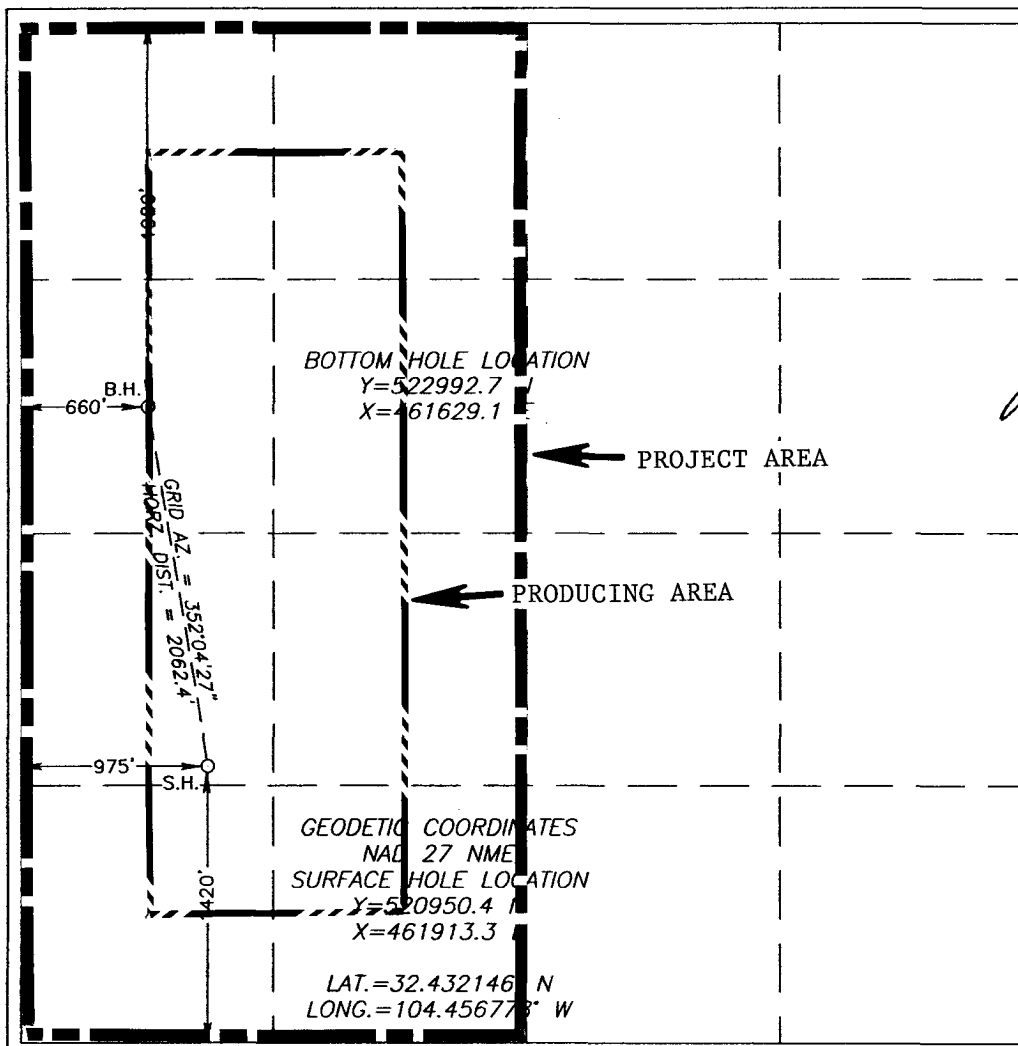
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	36	21-S	24-E		1420	SOUTH	975	WEST	EDDY

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
E	36	21-S	24-E		1980	NORTH	660	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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



OPERATOR CERTIFICATION

I hereby certify that the information 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 or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Joe T. Janica
Signature Date 12/06/06

Joe T. Janica

Printed Name

Agent

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.

OCTOBER 03, 2006

Date Surveyed LA REV: 11/7/06

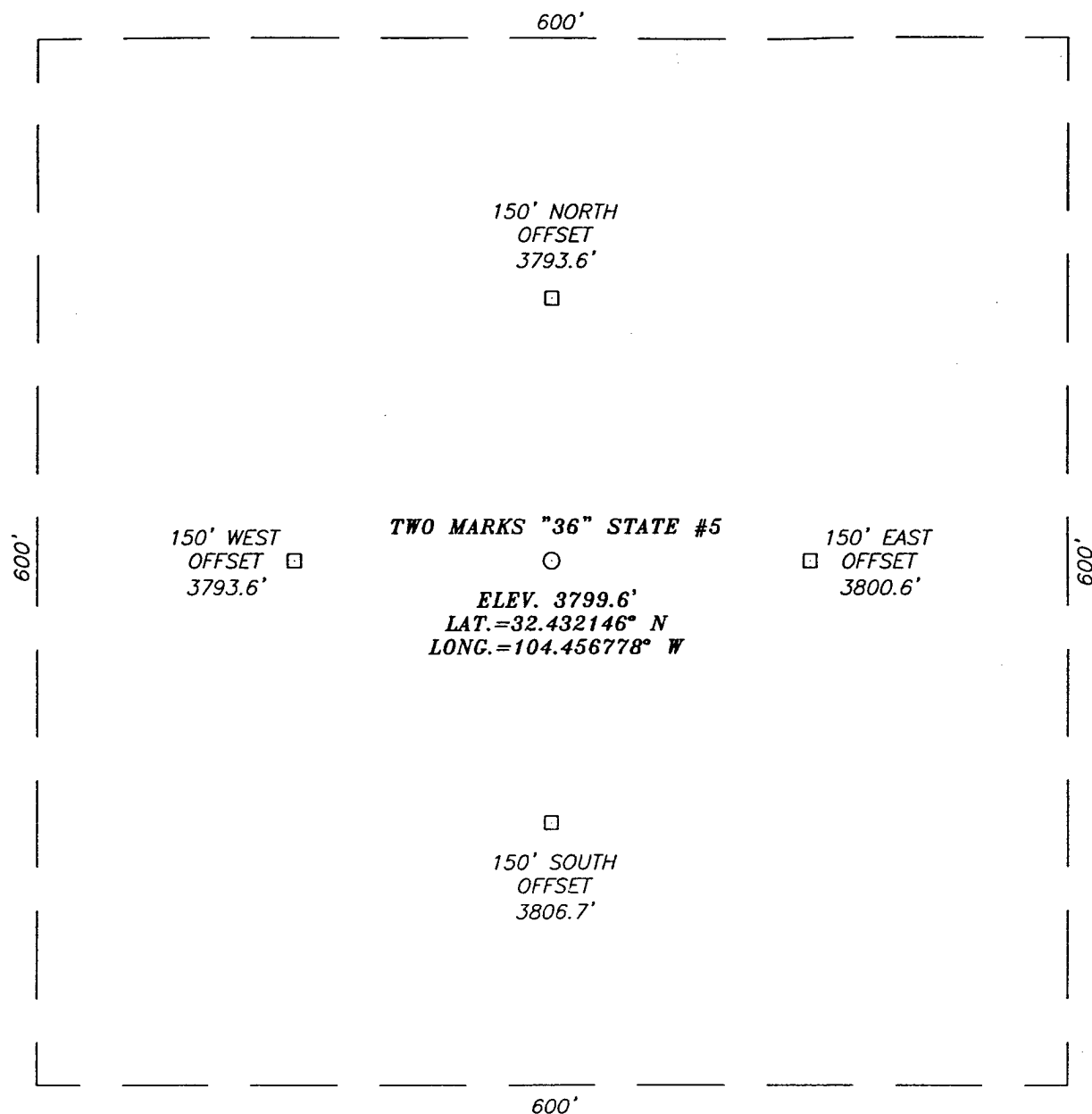
Signature & Seal of Professional Surveyor

Gary L. Edmon
06.11.1589

Certificate No. GARY EDMON

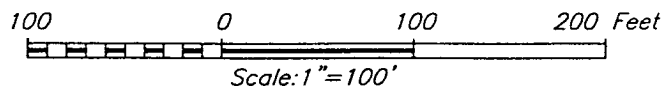
12641

SECTION 36, TOWNSHIP 21 SOUTH, RANGE 24 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF HIGHWAY #285 AND HIGHWAY #137 GO SOUTHWEST ON HIGHWAY #137 APPROX. 5.5 MILES. TURN LEFT AND GO SOUTH TO THE END LEASE ROAD. FOLLOW LEASE SOUTHWEST TO EAST TO NORTH APPROX 4.1 MILES. TURN LEFT AND GO WEST FOLLOW ROAD TURN RT AND GO NORTH APPROX 0.7 MILES. THIS LOCATION IS APPROX. 500 FEET NORTH OF EXISTING WELL.



LATIGO PETROLEUM, INC.

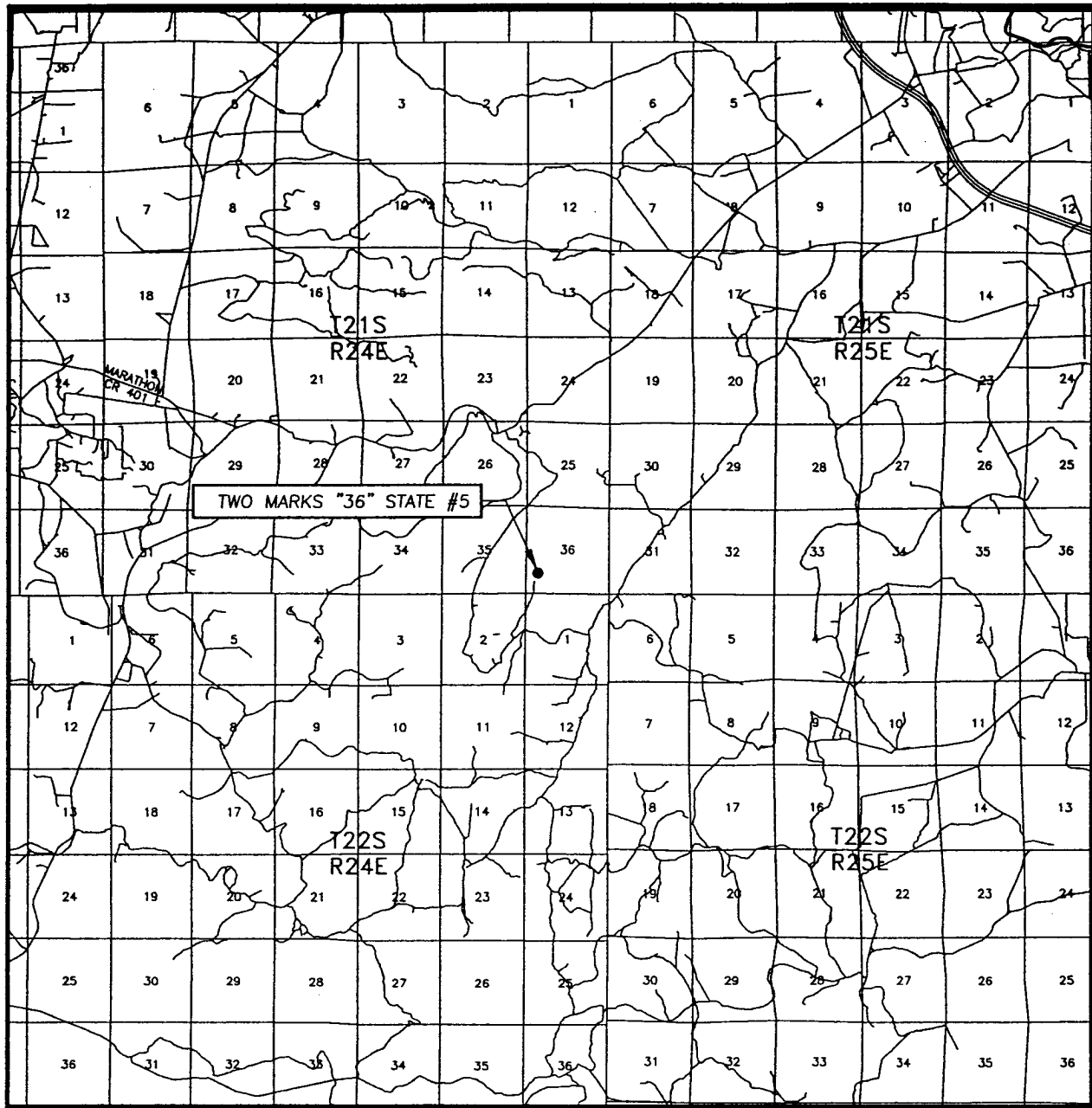
TWO MARKS "36" STATE #5 WELL
 LOCATED 1420 FEET FROM THE SOUTH LINE
 AND 975 FEET FROM THE WEST LINE OF SECTION 36
 TOWNSHIP 21 SOUTH, RANGE 24 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

Survey Date: 10/03/06	Sheet 1 of 1 Sheets
W.O. Number: 06.11.1589	Dr By: LA
Date: 10/12/06	Disk: CD#5
06111589	Scale: 1"=100'



PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (505) 393-3117

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 36 TWP. 21-S RGE. 24-E

SURVEY N.M.P.M.

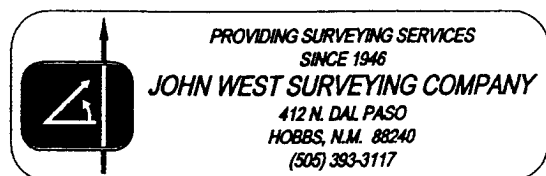
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1420' FSL & 975' FWL

ELEVATION 3800'

OPERATOR LATIGO PETROLEUM, INC.

LEASE TWO MARKS "36" STATE



PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

Hydrogen Sulfide Contingency Plan
For Drilling/Workover/Facility

This well and its anticipated facility are not expected to have Hydrogen Sulfide releases. However, there may be Hydrogen Sulfide production in the nearby area. There are no private Residences in the area but a contingency plan has been orchestrated. Pogo Producing Company will have a Company Representative living on location through out the drilling of this well. An un-manned H₂S safety trailer and monitoring equipment will also be station on location during the drilling operation below the Surface Casing depth of \pm 1600' until completion of subject well at a TD of 9080'.

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General H2S Emergency Actions:

1. All personnel will immediately evacuate to an up-wind and if possible up-hill "safe area"
2. If for any reason a person must enter the hazardous area, they must wear a SCBA (Self Contained Breathing Apparatus)
3. Always use the "buddy system"
4. Isolate the well/problem if possible
5. Account for all personnel
6. Display the proper colors warning all unsuspecting personnel of the danger at hand.
7. Contact the Company personnel as soon as possible if not at the location. (use the enclosed call list as instructed

At this point the company representative will evaluate the situation and coordinate the necessary duties to bring the situation under control, and if necessary, the notification of the emergency response agencies and nearby residents.

EMERGENCY PROCEDURES FOR AN UNCONTROLLABLE RELEASE OF H2S

1. All personnel will don the self contained breathing apparatus.
2. Remove all personnel to the "safe area". (always use the buddy system).
3. Contact company personnel if not on location.
4. Set in motion the steps to protect and or remove the general public to an upwind "safe area". Maintain strict security & safety procedures while dealing with the source.
5. No entry to any unauthorized personnel.
6. Notify the appropriate agencies: City Police-City Street (s)
State Police- State Rd
County Sheriff – County Rd.
7. Call the NMOCD

If at this time the supervising person determines the release of H2S cannot be contained to the site location and the general public is in harms way he will take the necessary steps to protect the workers and the public.

EMERGENCY CALL LIST: (Start and continue until ONE of these people have been contacted)

	OFFICE	MOBILE	HOME
POGO Producing Co.	432 685 8100		
Richard Wright	432 685 8140	432 556 7595	432 699 7108
Barrett Smith	432 685 8141	432 425 0149	432 520 7337
Rex Jasper	432 685 8143	432 631 0127	432 694 1839
Donny Davis	pgr 432 563 6944	432 556 5927	432 570 9555
Jerry Cooper	432 685 8101		432 697 4629

EMERGENCY RESPONSE NUMBERS:

State Police:	Eddy County		505 748 9718
State Police:	Lea County		505 392 5588
Sheriff	Eddy County		505 746 2701
Sheriff	Lea County		
Emergency Medical Ser	Eddy County		911 or 505 746 2701
(Ambulance)	Lea County	Eunice	911 or 505 394 3258
Emergency Response	Eddy County	SERC	505 476 9620
	Lea County		
Artesia Police Dept			505 746 5001
Artesia Fire Dept			505 746 5001

Carlsbad Police Dept		505 885 2111
Carlsbad Fire Dept		505 885 3125
Loco Hills Police Dept		505 677 2349
Jal Police Dept		505 395 2501
Jal Fire Dept		505 395 2221
Jal ambulance		505 395 2221
Eunice Police Dept		505 394 0112
Eunice Fire Dept		505 394 3258
Eunice Ambulance		505 394 3258
Hobbs Police Dept		
NMOCD	District 1 (Lea, Roosevelt, Curry)	505 393 6161
	District 2 (Eddy Chavez)	505 748 1283
Lea County Information		505 393 8203
Callaway Safety	Lea/Eddy County	505 392 2973
BJ Services	Artesia	505 746 3140
	Hobbs	505 392 5556
Halliburton	Artesia	1 800 523 2482
	Hobbs	1 800 523 2482
Wild Well Control	Midland	432 550 6202
	Mobile	432 553 1166

PROTECTION OF THE GENERAL PUBLIC (ROE):

- 100 ppm at any public area (any place not associated with this site)
- 500 ppm at any public road (any road which the general public may travel)
- 100 ppm radius of ¼ mile in New Mexico will be assumed if there is insufficient data to do the calculations, and there is a reasonable expectation that H2S could be present in concentrations greater than 100 ppm in the gas mixture

CALCULATIONS FOR THE 100 PPM (ROE) "Pasquill-Gifford equation"

$X = [(1.589) (\text{mole fraction}) (Q - \text{volume in std cu ft}) \text{ to the power of } (0.6258)]$

CALCULATION FOR THE 500 PPM ROE:

$X = [(.4546) (\text{mole fraction}) (Q - \text{volume in std cu ft}) \text{ to the power of } (0.6258)]$

Example:

If a well/facility has been determined to have 150 / 500 ppm H2S in the gas mixture and the well/facility is producing at a gas rate of 100 MCFPD then:

150 ppm $X = [(1.589) (.00015) (100,000 \text{ cfd}) \text{ to the power of } (.6258)]$
 $X = 7 \text{ ft}$

500 ppm $X = [(.4546) (.0005) (100,000 \text{ cfd}) \text{ to the power of } (.6258)]$
 $X = 3.3 \text{ ft.}$

(These calculations will be forwarded to the appropriate District NMOCD office when Applicable)

PUBLIC EVACUATION PLAN:

- 1. Notification of the emergency response agencies of the hazardous condition and implement evacuation procedures.
- A trained person in H2S safety, shall monitor with detection equipment the H2S concentration, wind and area exposure (ROE). This person will determine the outer perimeter of the hazardous area. The extent of the evacuation area will be determined from the data being collected. Monitoring shall continue until the situation has been resolved. (All monitoring equipment shall be UL approved, for use in class 1

groups A,B,C &D, Division 1, hazardous locations. All monitor will have a minimum capability of measuring H₂S , oxygen, and flammable values).

- Law enforcement shall be notified to set up necessary barriers and maintain such for the duration of the situation as well as aid in the evacuation procedure.
- The company supervising personnel shall stay in communication with all agencies through out the duration of the situation and inform such agencies when the situation has been contained and the effected area(s) is safe to enter.

PROCEDURE FOR IGNITING AN UNCONTROLABLE CONDITION:

- 1. Human life and/or property are in danger
- 2. There is no hope of bringing the situation under control with the prevailing conditions at the site.

INSTRUCTION FOR IGNITION:

- 1. Two people are required. They must be equipped with positive pressure, self contained breathing apparatus and a "D" ring style full body, OSHA approved safety harness. Non flammable rope will be attached.
- 2. One of the people will be qualified safety person who will test the atmosphere for H₂S, Oxygen & LFL. The other person will be the company supervisor; he is responsible for igniting the well.
- 3. Ignite up wind from a distance no closer than necessary. Make sure that where you ignite from has the maximum escape avenue available. A 25 mm flare gun shall be used, with a \pm 500 ft. range to ignite the gas.
- 4. Prior to ignition, make a final check for combustible gases.
- 5. Following ignition, continue with the emergency actions & procedures as before.

REQUIRED EMERGENCY EQUIPMENT:

- **1. Breathing apparatus:**
 - Rescue Packs (SCBA) – 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
 - Work/Escapes packs – 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
 - Emergency Escape Packs – 4 packs shall be stored in the doghouse for emergency evacuation.
- **2. Signage & Flagging:**
 - One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - A colored condition flag will be on display, reflecting the condition at the site at the time.
- **3. Briefing Area:** two perpendicular areas will be designated by signs and readily accessible.
- **4. Wind Socks:** Two wind socks will be placed in strategic locations, visible from all angles.
- **5. H₂S detectors and alarms:** The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: (Gas sample tubes will be stored in the safety trailer)
 - Rig Floor
 - Bell Nipple
 - End of Flow line or where well bore fluid are being discharged.
- **6. Auxiliary Rescue Equipment:**
 - Stretcher
 - Two OSHA full body harness
 - 100 ft 5/8 inch OSHA approved rope

- 1-20# class ABC fire extinguisher
- Communication via cell phones on location and vehicles on location.

USING SELF CONTAINED BREATHING AIR EQUIPMENT (SCBA):

- (SCBA) SHOULD BE WORN WHEN ANY OF THE FOLLOWING ARE PERFORMED:
 - Working near the top or on top of a tank
 - Disconnecting any line where H₂S can reasonably be expected
 - Sampling air in the area to determine if toxic concentrations of H₂S exist.
 - Working in areas where over 10 ppm on H₂S has been detected.
 - At any time there is a doubt as the level of H₂S in the area.
- All personnel shall be trained in the use of SCBA prior to working in a potentially hazardous location.
- Facial hair and standard eyeglasses are not allowed with SCBA.
- Contact lenses are never allowed with SCBA.
- Air quality shall be continuously be checked during the entire operation.
- After each use, the SCBA unit shall be cleaned, disinfected, serviced and inspected
- All SCBA shall be inspected monthly.

RESCUE AND FIRST AID FOR VICTIMS OF HYDROGEN SULFIDE (H₂S) POISONING:

- Do not panic
- Remain Calm & think
- Get on the breathing apparatus

- Remove the victim to the safe breathing area as quickly as possible. Up wind an uphill from source or cross wind to achieve upwind.
- Notify emergency response personnel.
- Provide artificial respiration and or CPR, as necessary
- Remove all contaminated clothing to avoid further exposure.
- A minimum of two personnel on location shall be trained in CPR and First Aid.

HYDROGEN SULFIDE TOXIC EFFECTS

H₂S is extremely toxic. The acceptable ceiling for eight hours of exposure is 10 ppm, which is .001% by volume. H₂S is approximately 20% heavier than air (Sp. Gr= 1.19)(Air = 1) and colorless. It forms an explosive mixture with air between 4.3% and 46%. By volume hydrogen sulfide is almost as toxic as hydrogen cyanide and is 5-6 times more toxic than carbon monoxide.

Various Gases

COMMON NAME	CHEMICAL ABBREV.	SPECIFIC GRVTY.	THRESHOLD LIMITS	HAZARDOUS LIMITS	LETHAL CONCENTRATIONS
Hydrogen Sulfide	H ₂ S	1.19	10ppm 15 ppm	100 ppm/hr	600 ppm
Hydrogen Cyanide	HCN	0.94	10 ppm	150 ppm/hr	300 ppm
Sulfur Dioxide	SO ₂	2.21	2 ppm	N/A	1000 ppm
Chlorine	CL ₂	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	CO	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	CO ₂	1.52	5000 ppm	5%	10%
Methane	CH ₄	0.55	90,000	Combustible @ 5%	N/A

Threshold limit: Concentrations at which it is believed that all workers may be repeatedly exposed, day after day without adverse effects.

Hazardous Limit: Concentrations that may cause death

Lethal

Concentrations: Concentrations that will cause death with short term exposure

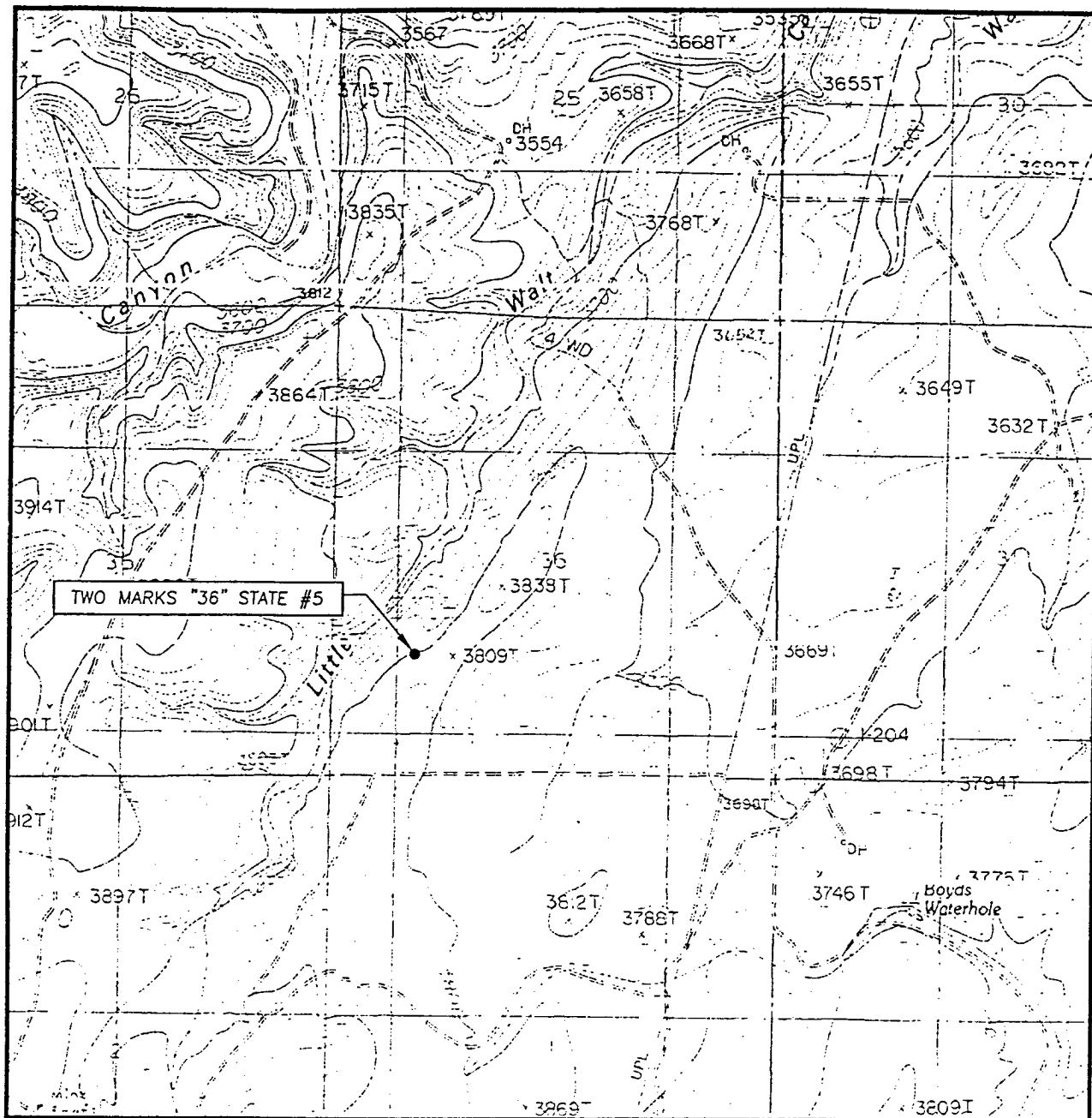
Threshold limit -

10 ppm: NIOSH guide to chemical hazards

PHYSICAL EFFECTS OF HYDROGEN SULFIDE:

CONCENTRATION	PHYSICAL EFFECTS
.001% 10 PPM	Obvious and unpleasant odor. Safe for 8 hr exposure
.005% 50 ppm	Can cause some flu like symptoms and can cause pneumonia
.01% 100 ppm	Kills the sense of smell in 3-15 minutes. May irritate the eyes and throat.
.02% 200 ppm	Kills the sense of smell rapidly. Severly irritates the eyes and throat. Severe flu like symptoms after 4 or more ours. May cause lung damage and or death.
.06% 600 ppm	Loss of consciousness quickly, death will result if not rescued promptly.

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
AZOTEA PEAK, N.M. - 20'

SEC. 36 TWP. 21-S RGE. 24-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1420' FSL & 975' FWL

ELEVATION 3800'

OPERATOR LATIGO PETROLEUM INC

LEASE TWO MARKS "36" STATE

U.S.G.S. TOPOGRAPHIC MAP
AZOTEA PEAK, N.M.

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF HIGHWAY #285 AND
HIGHWAY #137 GO SOUTHWEST ON HIGHWAY
#137 APPROX. 5.5 MILES. TURN LEFT AND GO
SOUTH TO THE END LEASE ROAD. FOLLOW LEASE
SOUTHWEST TO EAST TO NORTH APPROX 4.1
MILES. TURN LEFT AND GO WEST FOLLOW ROAD
TURN RT AND GO NORTH APPROX 0.7 MILES. THIS
LOCATION IS APPROX. 500 FEET NORTH OF
EXISTING WELL.

PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

