

DISTRICT I
1625 N. FURNACE DR., HOHNS, NM 86240

DISTRICT II
1301 W. GRAND AVENUE, ARTERIA, 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 and Natural Resources Department

OIL 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 30 005 64001	Pool Code 80693	Pool Name Lost Lake (Strawn) Gas
Property Code 36402	Property Name SYCAMORE	Well Number 2
OCRID No. 237788	Operator Name PLANTATION OPERATING, LLC	Elevation 4069'

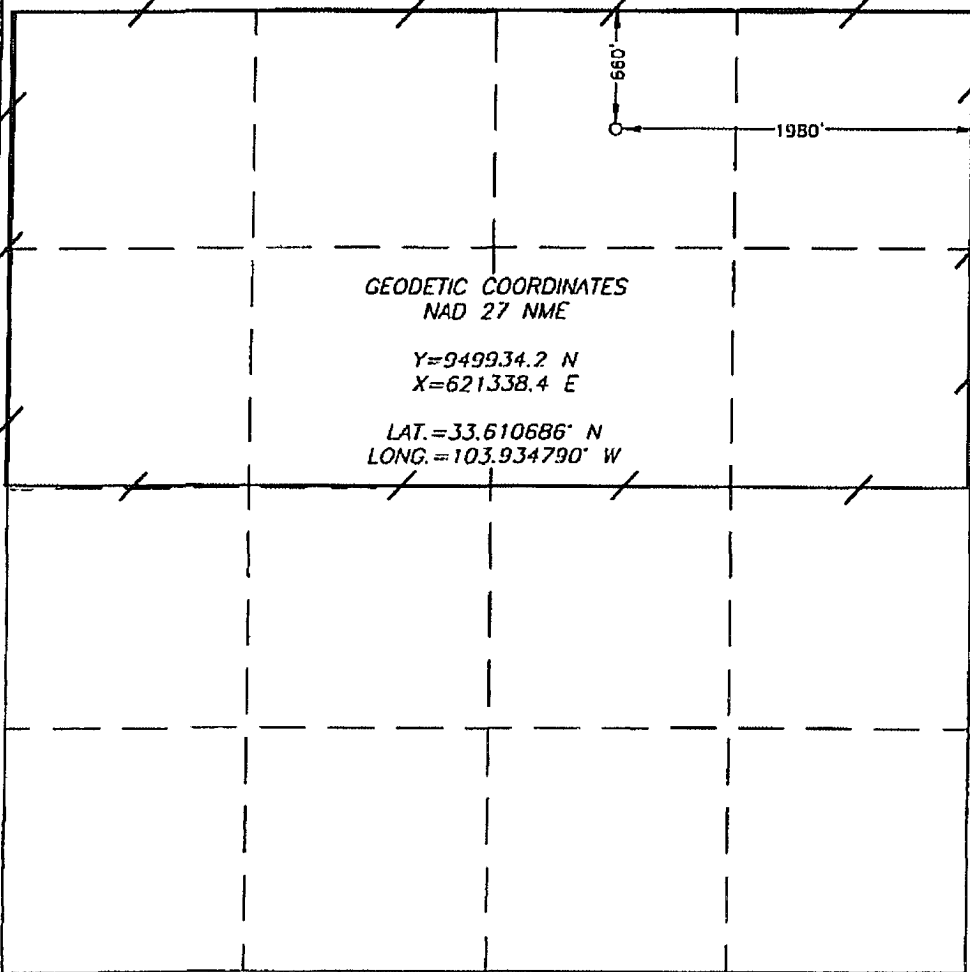
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	24	8-S	29-E		660	NORTH	1980	EAST	CHAVES

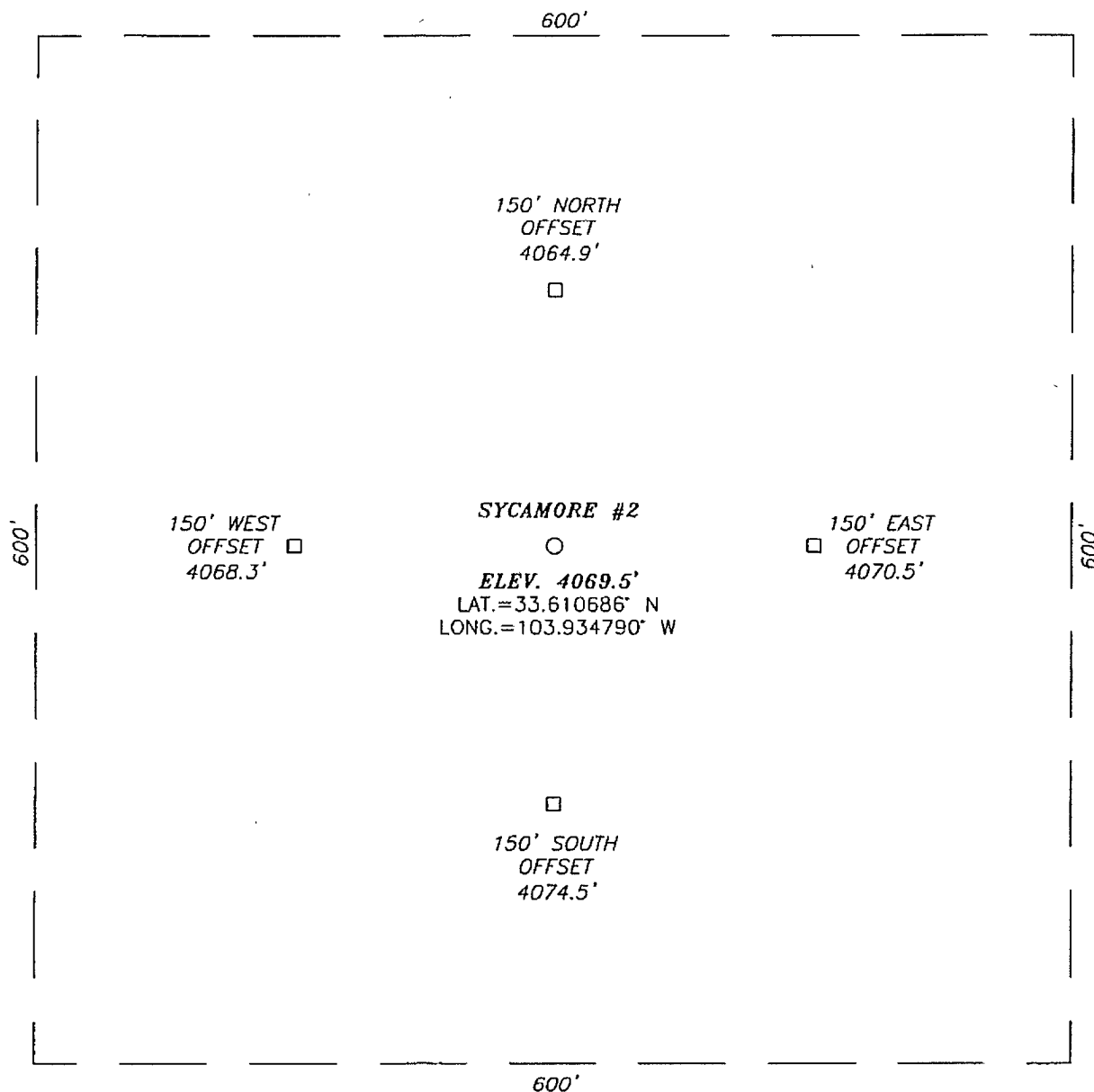
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						

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

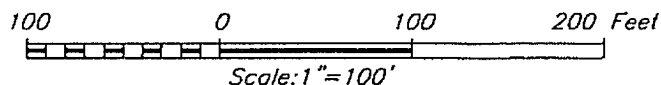
 GEODETIC COORDINATES NAD 27 NME Y=949934.2 N X=621338.4 E LAT.=33.610686° N LONG.=103.934790° W	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral 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. 12/12/2007 Signature _____ Kimberly Faldyn 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. NOVEMBER 17, 2007 Date Surveyed _____ Signature & Seal of Professional Surveyor _____ 3259 Certificate No.: GARY EIDSON 12641 RONALD J. EIDSON 3239
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SECTION 24, TOWNSHIP 8 SOUTH, RANGE 29 EAST, N.M.P.M.,
 CHAVES COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. #380 AND CATO RD., TURN NORTH ON CATO RD. AND GO APPROX. 8.8 MILES, TURN LEFT AND GO WEST APPROX. 0.7 MILES. TURN LEFT AND GO SOUTH APPROX. 0.2 MILES. TURN RIGHT AND GO WEST APPROX. 0.2 MILES. TURN LEFT AND GO SOUTH APPROX. 0.2 MILES. TURN RIGHT AND GO WEST APPROX. 0.7 MILES. TURN RIGHT AND GO NORTH APPROX. 0.4 MILES. TURN RIGHT AND GO EAST APPROX. 0.1 MILES. TURN LEFT AND GO NORTH APPROX. 1.6 MILES. TURN NORTH, THEN NORTHEAST APPROX. 1.0 MILE. VEER RIGHT AND GO NORTHEAST APPROX. 1.0 MILE. THIS LOCATION IS APPROX. 925 FEET NORTHWEST.



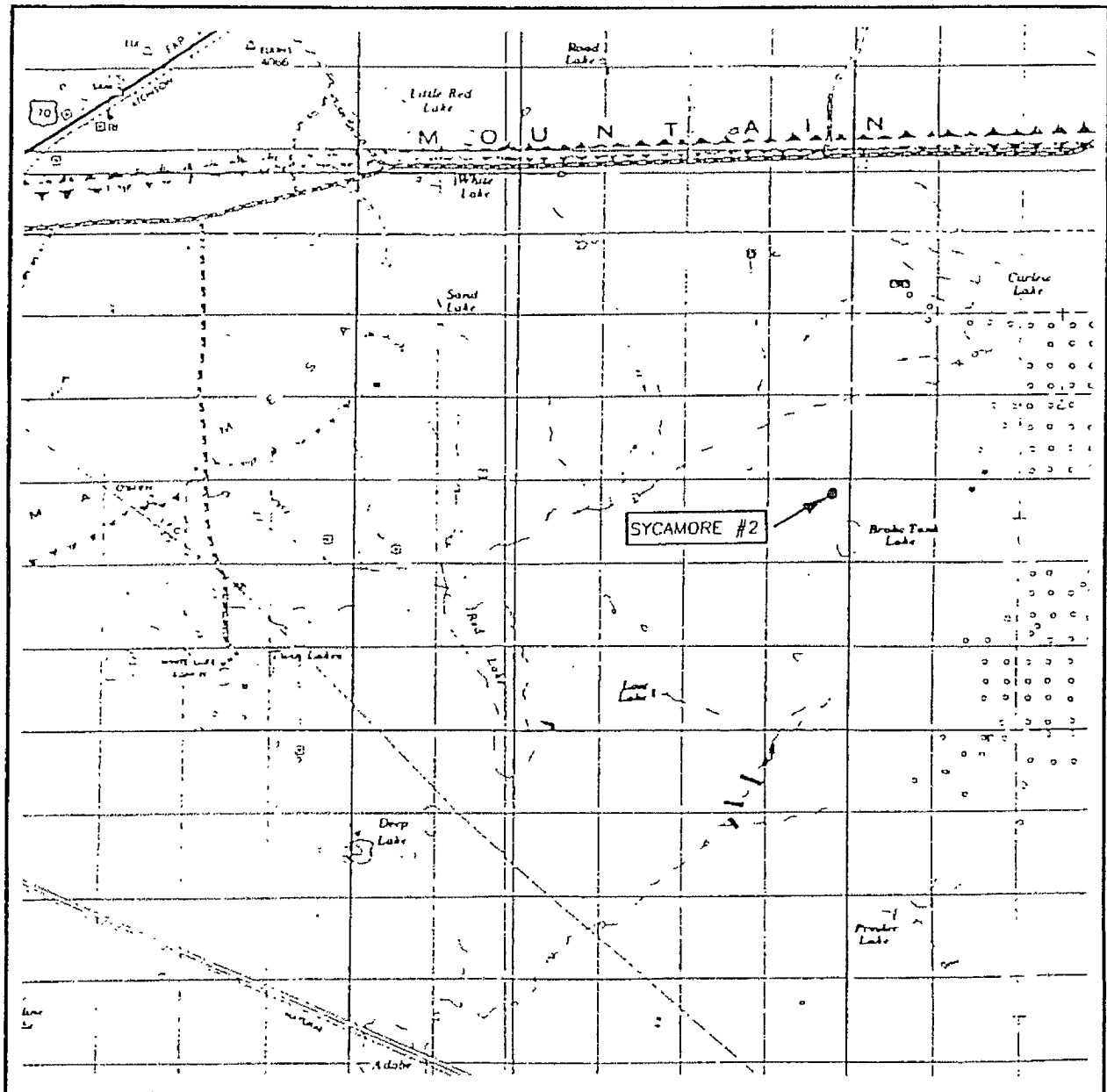
PLANTATION OPERATING, LLC

SYCAMORE #2 WELL
 LOCATED 660 FEET FROM THE NORTH LINE
 AND 1980 FEET FROM THE EAST LINE OF SECTION 24,
 TOWNSHIP 8 SOUTH, RANGE 29 EAST, N.M.P.M.,
 CHAVES COUNTY, NEW MEXICO.

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

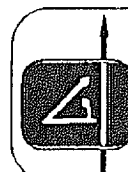
Survey Date: 11/17/07	Sheet 1 of 1 Sheets
W.O. Number: 07.11.1722	Dr By: LA
Date: 11/29/07	07111722
	Scale: 1"=100'

VICINITY MAP



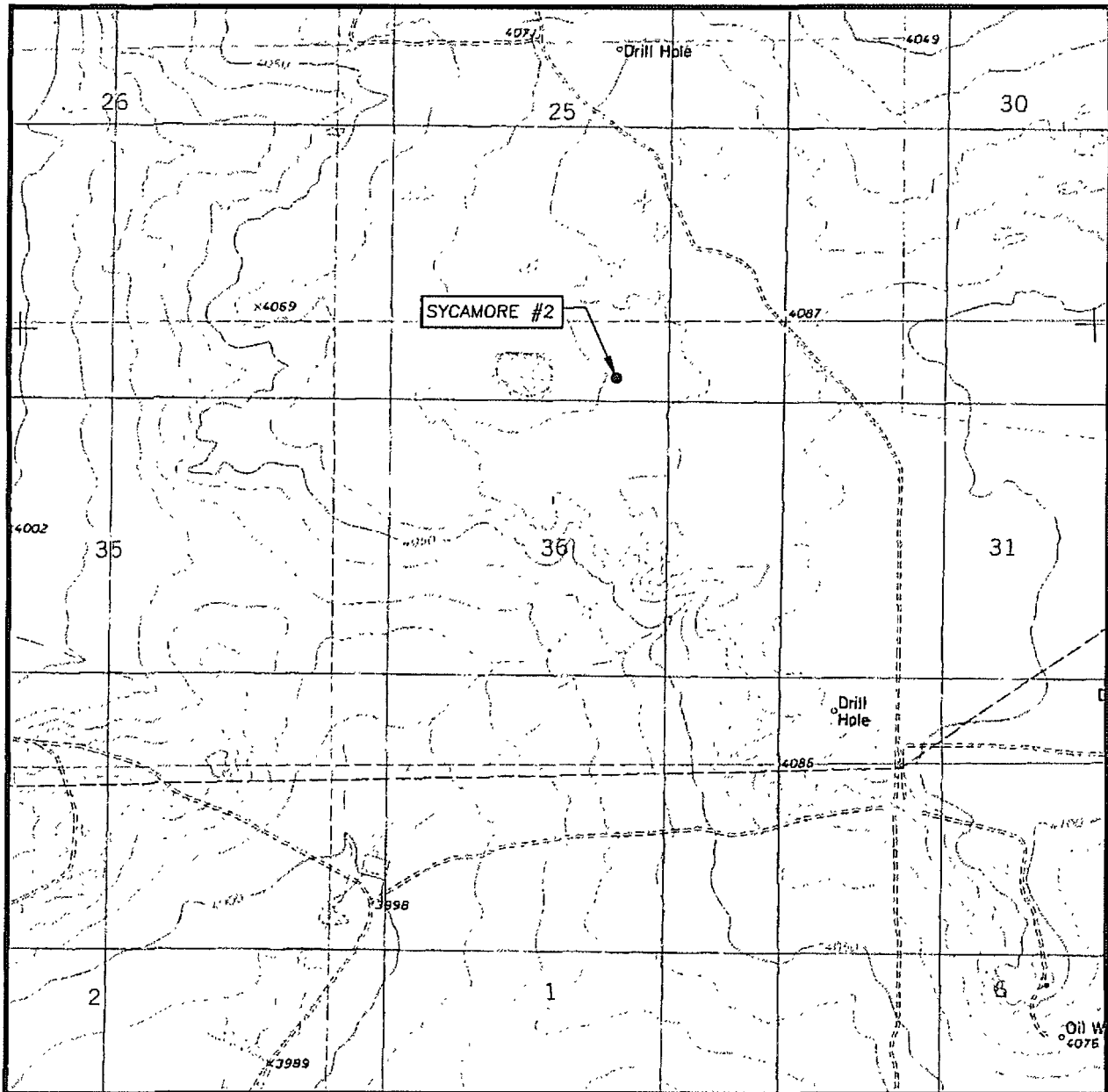
SCALE: 1" = 2 MILES

SEC. 24 TWP. 8-S RGE. 29-E
 SURVEY N.M.P.M.
 COUNTY CHAVES STATE NEW MEXICO
 DESCRIPTION 660' FNL & 1980' FEL
 ELEVATION 4069'
 OPERATOR PLANTATION OPERATING, LLC
 LEASE SYCAMORE



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

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
PRESLER LAKE, N.M. - 10'

SEC. 24 TWP. 8-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY CHAVES STATE NEW MEXICO

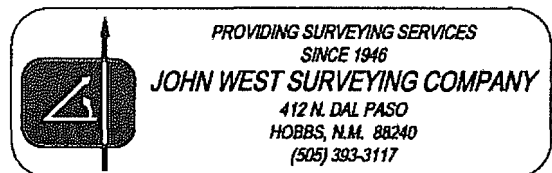
DESCRIPTION 660' FNL & 1980' FEL

ELEVATION 4069'

OPERATOR PLANTATION
OPERATING, LLC

LEASE SYCAMORE

U.S.G.S. TOPOGRAPHIC MAP
PRESLER LAKE, N.M.





Plantation Petroleum Companies

Plantation Petroleum Holdings IV, LLC; Plantation Operating, LLC

Kimberly Faldyn
Engineering Tech

4700 W. Sam Houston Pkwy N., Suite 140
Houston, TX 77041
Tel: (281) 296-7222
Fax: (281) 298-2333

January 9, 2008

VIA E-Mail

State of New Mexico
Oil Conservation Division
1301 W. Grand Avenue
Artesia, NM 88210

Attn: Mr. Bryan Arrant

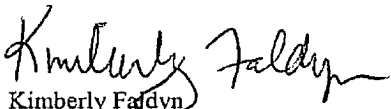
**RE: Sycamore #2
H2S Analysis**

Dear Mr. Arrant:

Plantation Operating, LLC is planning to drill the Sycamore #2 well located in Chaves County, NM, and completing same in the Lost Lake-Strawn pool. Attached please find the New-Tex Lab Analysis which shows no H2S in the State "JA" #1 which was completed in the (Lost Lake-Strawn) pool. Plantation Operating, LLC does have a Contingency Plan for H2S already prepared in the event it should need to be implemented.

If you have any questions or need additional information, please feel free to call Kim Faldyn at (281) 296-7222 or e-mail at kfaldyn@plantationpetro.com. Thank you for your attention to this matter.

Sincerely,


Kimberly Faldyn
Production Tech

NEW-TEX
LAB

PHONE 505/393-0581

P.O. BOX 1181

611 W. SNYDER

HOBBBS, NEW MEXICO 88240

ANALYSIS CERTIFICATE

CLIENT: JOHN WEST ENGINEERING
ADDRESS: 412 W. DALPASO
CITY, STATE: HOBBBS NEW MEXICO 88240
ANALYSIS NUMBER: 859
DATE OF RUN: 06/21/83
DATE SECURED: 06/18/83

SAMPLE IDENT: AMOCO PROD. CO. - ~~State "34" #1~~ (lost label - Stream)
SAMPLING PRESS: 54445
SAMPLING TEMP: 54445

REMARKS: SOME LIQUID IN SAMPLE

C. HARRIS, M.M.

***** GAS ANALYSIS *****

MOLE PERCENT
GAL/MCF

NITROGEN	1.605	
CARBON DIOXIDE	0.724	
METHANE	79.356	
ETHANE	9.806	
PROpane	4.757	
ISO-BUTANE	0.942	
NORMAL BUTANE	1.481	
ISO-PENTANE	0.540	
NORMAL PENTANE	0.346	
HEXANES	0.214	
HEPTANES PLUS	0.229	
TOTAL	100.000	

PROpane GPM:	1.31	
ETHANE GPM:	2.61	
SPECIFIC GRAV (CALC):	0.7246	
MOLE WEIGHT:	21.01	

BUTANES GPM:	0.77	
PENTANES PLUS GPM:	0.52	
DRY	1232	
	1229	
	1235	
	1235	

RR HAMILTON

(Handwritten signature)

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65
JUL 22 1983

40
 File

Type Test ☒ Initial ☒ Annual ☐ Special		Test Date 5-18-93		ARTESIA, OFFICE	
Company AMOCO PRODUCTION COMPANY			Connection CITIES SERVICES COMPANY		
Pool LOST LAKE STRAIN			Formation STRAWN		Unit
Completion Date 07/25/81		Total Depth 9200.	Plug Back TD 9230.	Elevation 4670.14090.	Form or Lease Name STATE JM
Cup. Size 5.500	WL 17.0	d 4.992	Set At 9300.	Perforations: From 8442. To 8476.	Well No. 1
Top. Size 2.375	WL 4.7	d 1.995	Set At 8476.	Perforations: From 0. To 0.	Unit Sec. Top. Rgn. F-36-9S-29E
Type Well - Single - Broadhead - G.G. or G.O. Multiple SINGLE				Packer Set At 9394.	County CHAVES COUNTY
Producing Tubing TUBING		Reservoir Temp. °F 162.0 9459.	Mean Annual Temp. °F 50.0	Base Press. - P _b 13.2	State NEW MEXICO
L. 8459.	H. 8459.	G. 0.725	% CO ₂ 0.72	% N ₂ 1.61	% H ₂ S 0.
Prooves 0.		Meter Run 3.0	Taps FLANGE		

FLOW DATA						TUBING DATA		CASING DATA		Direction of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _g	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
51							2298.	50.			72.0
1.	3.00 X 2.000			14.	2.0	109.	2196.	109.	0.	0.	1.0
2.	3.00 X 2.000			19.	5.0	110.	2143.	110.	0.	0.	0.7
3.	3.00 X 2.000			25.	10.0	107.	2057.	107.	0.	0.	0.7
4.	3.00 X 2.000			39.	20.0	94.	1920.	94.	0.	0.	0.7
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compens. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	21.53	7.39	27.2	0.9569	1.1748	1.0024	179.
2	21.53	12.49	31.2	0.9551	1.1749	1.0027	303.
3	21.53	19.54	39.2	0.9577	1.1749	1.0034	475.
4	21.53	32.00	51.2	0.9639	1.1748	1.0043	755.
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	0.04	559.	1.45	0.995	0.	0.1	0.725	XXXXXX	557.	392.
2.	0.05	570.	1.45	0.995				XXXXXX		
3.	0.06	567.	1.45	0.993				XXXXXX		
4.	0.08	554.	1.41	0.990				XXXXXX		
5.										

NO.	P _f ²	P _m	P _f ²	P _f ² - P _m ²
1	4991.	2153.	4635.	707.
2	4549	3099	4405.	935.
3	4396	3019.	4074.	1369.
4	3737	1999.	3406.	1735.
5				

(1) $\frac{P_c^2}{P_f^2 - P_m^2} = 3.9230$

KOF = 0 $\left[\frac{P_c^2}{P_f^2 - P_m^2} \right]^m = 2425.$

(2) $\left[\frac{P_c^2}{P_f^2 - P_m^2} \right]^m = 3.0230$

Absolute Open Flow	2425.	Width @ 15.025	Angle @ Slope	45.0	Slope, m	1.000
Horizontal: _____ Vertical: _____ Slope: _____						

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
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