

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

Form C-144
June 1, 2004

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

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☐

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

Operator: Chesapeake Operating, Inc. Telephone: (405) 879-6854 e-mail address: linda.weeks@chk.com
Address: P.O. Box 18496 Oklahoma City, OK 73154-0496
Facility or well name: Langley Greer # 4 API#: 30-025-38956 U/lor Qtr/Qtr E Sec 21 T 22S R 36E
County: Lea Latitude 32.378459 Longitude -103.276038 NAD: 1927 ☒ 1983 ☐ Surface Owner Federal ☐ State ☒ Private ☐ Indian ☐

Pit	Below-grade tank	
Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl	Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> 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	(20 points)
	50 feet or more, but less than 100 feet	(10 points)
	100 feet or more	(0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes	(20 points)
	No	(0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)
	200 feet or more, but less than 1000 feet	(10 points)
	1000 feet or more	(0 points)
Ranking Score (Total Points)		0

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: (check the onsite box if you are burying in place) 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.

Additional Comments:
All cuttings will be transported to a NMOCD approved land farm.
Steel tanks will be used in the drilling of this well.

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: 05/29/2008

Printed Name/Title Linda Weeks-Reg. Compliance Specialist

Signature

Linda Weeks

Your 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.

Approval:

Printed Name/Title CHRIS WILLIAMS/DIST. SUPV.

Signature

Chris Williams

Date:

6/2/08

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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 30-025-38956	Pool Code 37090	Pool Name Langley; Strawn
Property Code 301487	Property Name LANGLEY GREER	Well Number 4
OGRID No. 147179	Operator Name CHESPEAKE OPERATING, INC.	Elevation 3539'

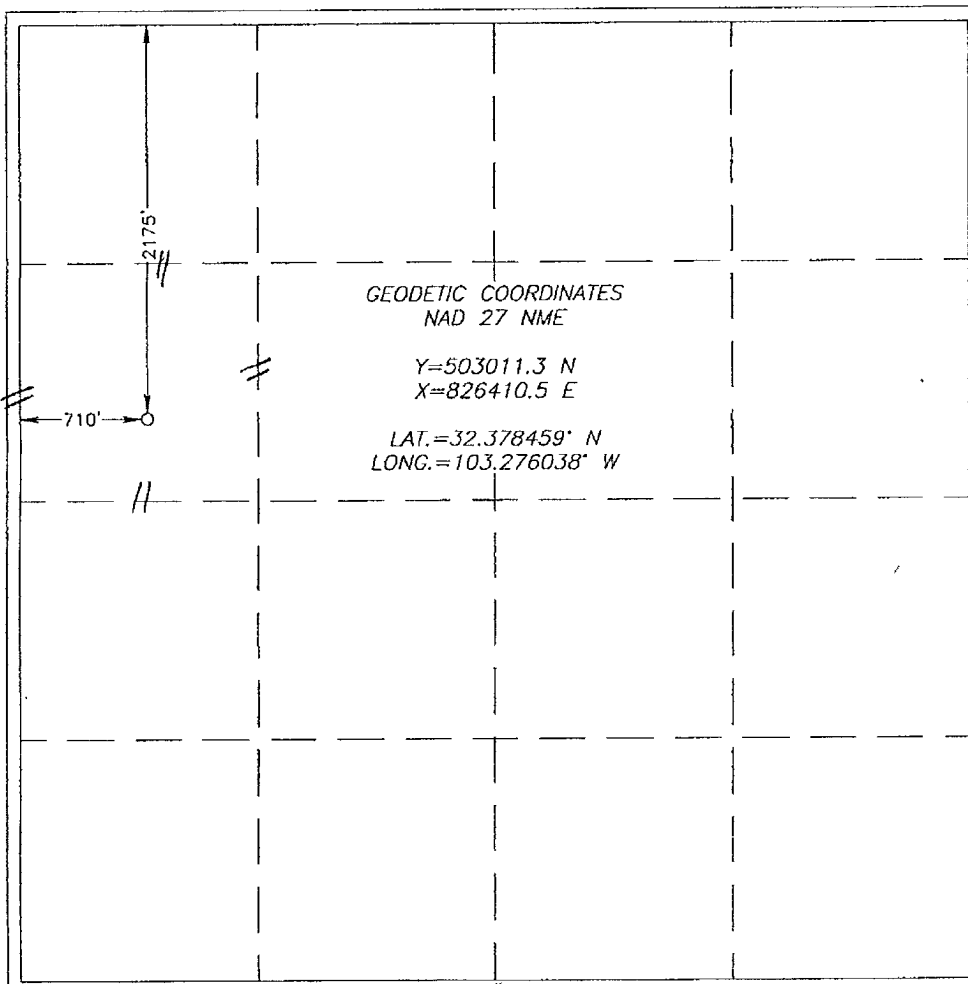
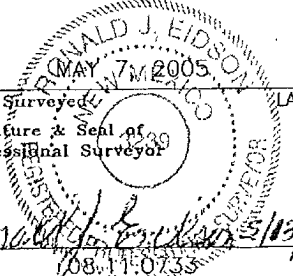
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	21	22-S	36-E		2175	NORTH	710	WEST	LEA

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 40		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

	<p>OPERATOR CERTIFICATION</p> <p>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.</p> <p><i>Ed Birdshead</i> 5/15/08 Signature Date</p> <p>Ed Birdshead Printed Name</p> <p>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> Date Surveyed Signature & Seal of Professional Surveyor <i>Ronald J. Eidson</i> 5/13/08 108-11-0733</p> <p>Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239</p>
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Chesapeake Operating, Inc.
Permian North – CBP - Langley Strawn Field
Robert Martin – Geologist/Cliff Hanoch – Geophysicist
GEOLOGICAL PROGNOSIS

April 16, 2008

WELL NAME: Langley Greer #4
Section 21-22S-36E, Lea County, New Mexico
SURFACE LOCATION: 2175' FNL & 710' FWL, Unit E
FIELD NAME: Langley (Strawn) Field
ELEVATIONS: GL 3532' (Est.) KB 3,551' (Est.)
ANTICIPATED CASING: 13 3/8" @ 400'; 8 5/8" @ 4550'; 5 1/2" @ 9800'

EXPECTED FORMATION TOPS:

FORMATION	SUBSEA	DRILL DEPTH
Rustler	2210	1341'
Salt	2141	1410'
**Yates	469	3082'
**Queen	-145	3696'
Glorieta	-2317	5868'
*Top Strawn Porosity	-5454	9005'
Strawn 4 Marker	-5730	9281'
TD		9800'

*Potentially productive zones **Productive zones by other operators

Note: the wells approximately 370' northwest produced from Queen at 3785-3830 (P&A) and 575' northeast currently produces from Yates/Seven Rivers (3061'-3543')

Offset Logs: Chesapeake Langley Greer Com #3H (21L-22S-36E)

OPEN HOLE LOGS: Company: To be Determined Phone:

Location:

Log Types & Depths: Quadruple Combo from TD to casing then GR/NEU to surface

MUDLOGGER: Company: Suttles Mudlogging
2-Man Unit

Phone:

Depth: 4000' to TD

Company Contacts:

Primary:

Robert Martin

Geology

Office: 405.767.4985

Office Fax: 405.810.2660

Mobile: 405.815.7317

Home: 405.216.5197

robert.martin@chk.com

Todd Nance

Operations

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Office Fax: 405.767.4528

Mobile: 405.919.9148

Home:

todd.nance@chk.com

Ed Birdshead

Land

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Office Fax: 405.767.1450

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Home:

ed.birdshead@chk.com

GEOLOGICAL PROGNOSIS
Langley Greer #4,
Sec 21, T-22-S, R-36-E, Lea Co, NM

Secondary:

David Godsey

Geology

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Office Fax: 405.810.2660

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dave.bert@chk.com

Greg Ramsey

Land Manager

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Mobile:

Home:

greg.ramsey@chk.com

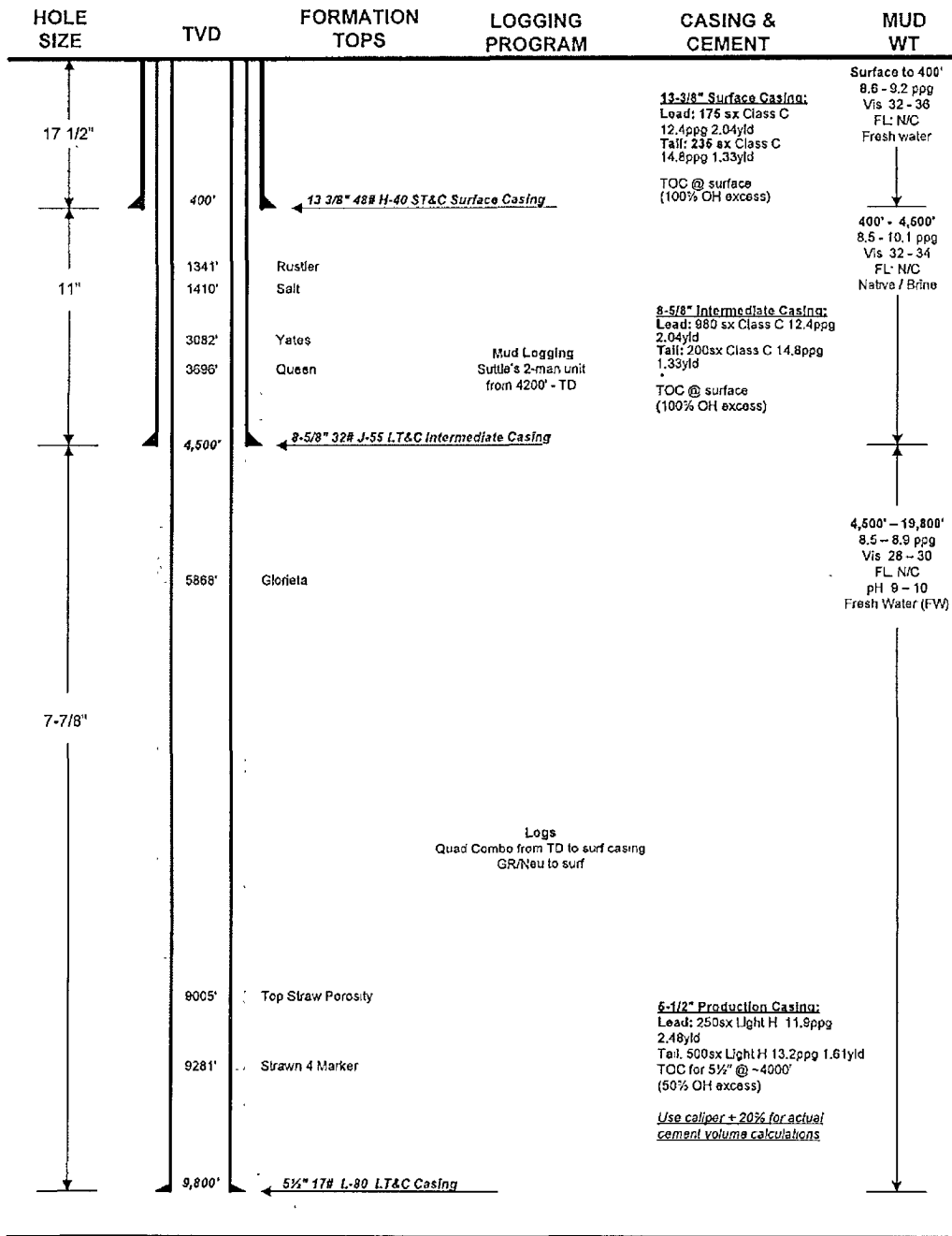
PROSPECT SUMMARY:

Subsurface defined Strawn prospect offsetting recently drilled Chesapeake Langley Greer Com #3H horizontal Devonian well (585' southwest) with excellent porosity in Upper Strawn.

CHESAPEAKE OPERATING INC
DRILLING SCHEMATIC (PROPOSED)



WELL : Langley Greer #4
 SHL : Section 21-22S-36E; 2,290' FNL & 860' FWL, Unit E
 BHL : Vertical
 COUNTY : Lea STATE : New Mexico
 FIELD :
 ELEVATION : GL - 3,532' Est. KB - 3,551' Est.



PREPARED BY: TAN
 REVISED BY:

DATE: 5/27/08
 DATE:

BLOWOUT PREVENTOR SCHEMATIC

CHESAPEAKE OPERATING INC

WELL : Langley Greer #4

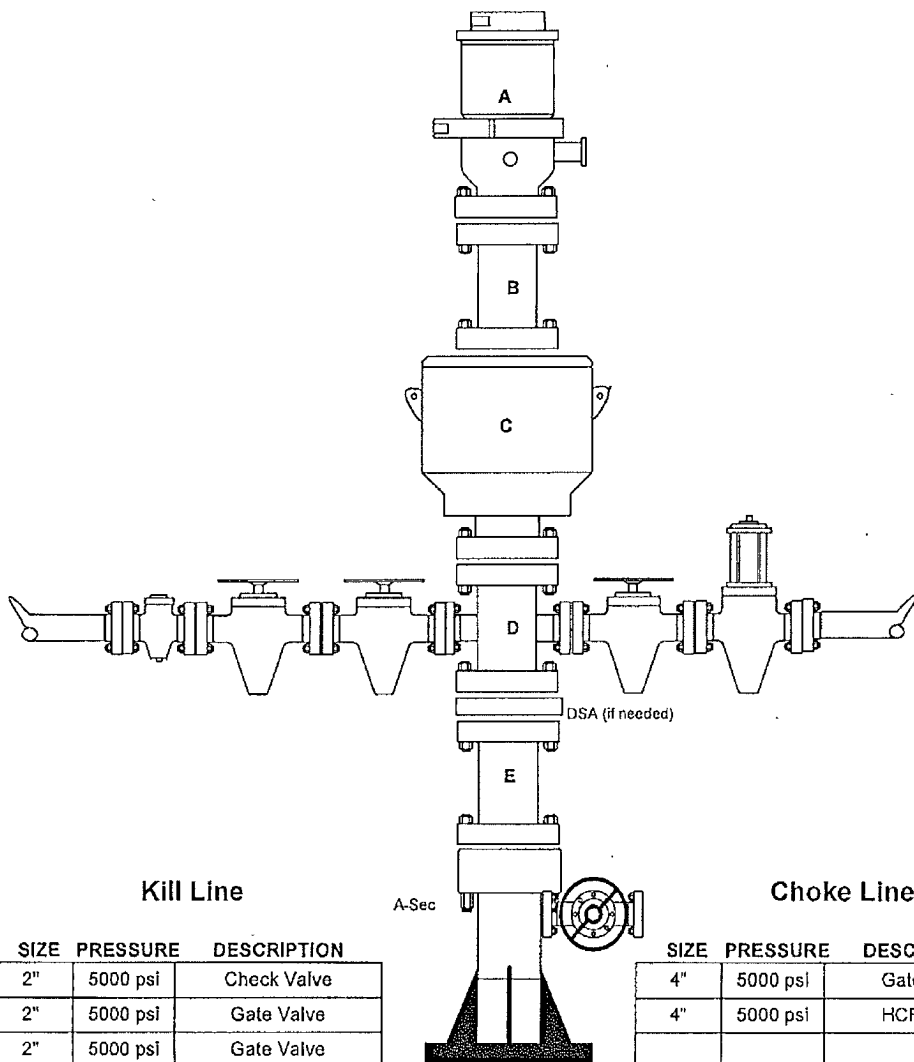
RIG : Latshaw 6

COUNTY : Lea

STATE: New Mexico

OPERATION : Drill out below 13-3/8" Casing (12-1/4" hole size)

	SIZE	PRESSURE	DESCRIPTION
A	13-5/8"	500 psi	Rot Head
B	13-5/8"	3000 psi	Spacer Spool
C	13-5/8"	3000 psi	Annular
D	13-5/8"	3000 psi	Mud Cross
E	13-5/8"	3000 psi	Spacer Spool
DSA	13-5/8" 3M x 13-5/8" 3M (if needed)		
A-Sec	13-3/8" SOW x 13-5/8" 3M		



Kill Line

SIZE	PRESSURE	DESCRIPTION
2"	5000 psi	Check Valve
2"	5000 psi	Gate Valve
2"	5000 psi	Gate Valve

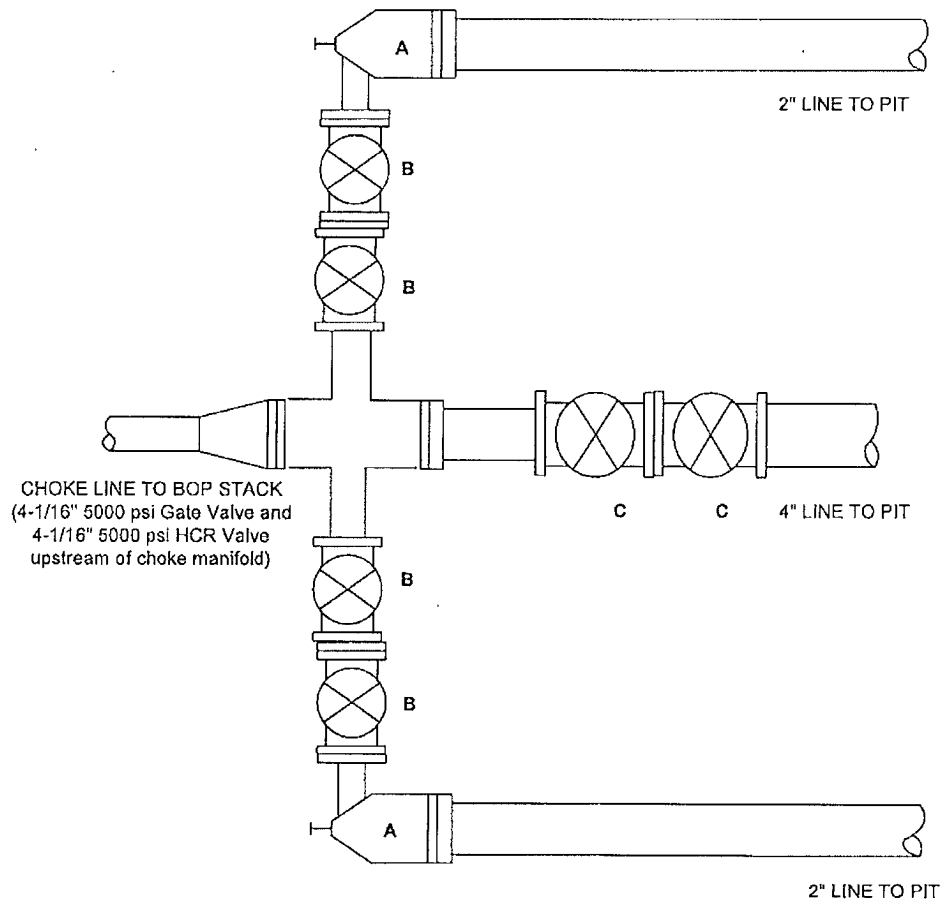
Choke Line

SIZE	PRESSURE	DESCRIPTION
4"	5000 psi	Gate Valve
4"	5000 psi	HCR Valve

CHOKE MANIFOLD SCHEMATIC

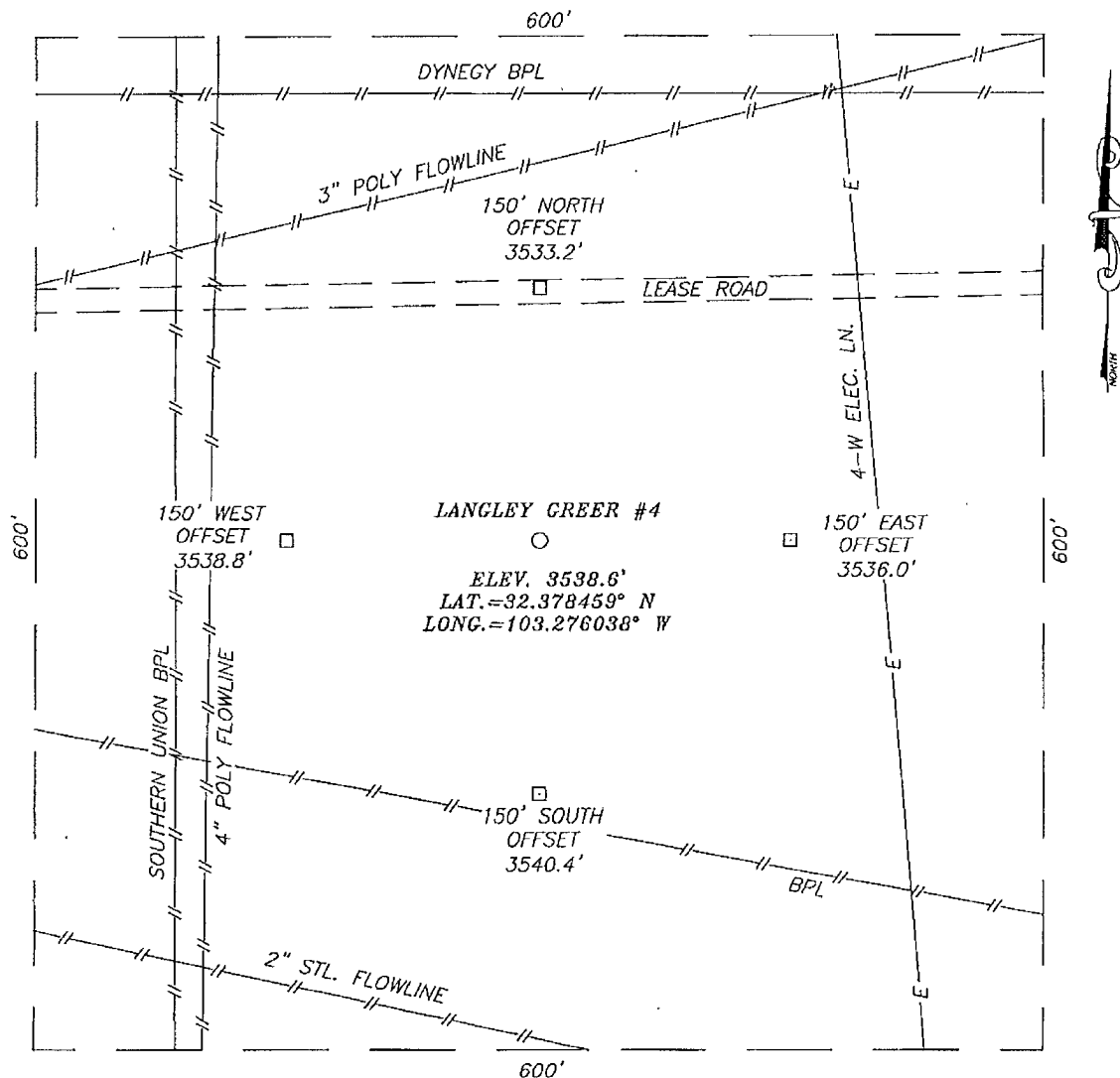
CHESAPEAKE OPERATING, INC.

WELL : Langley Greer #4
 RIG : Latshaw 6
 COUNTY : Lea STATE : New Mexico
 OPERATION: Drilling below/beyond 13-3/8" surface casing



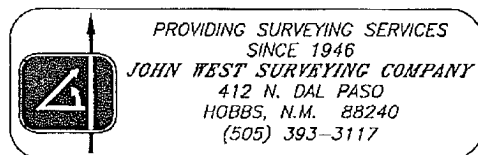
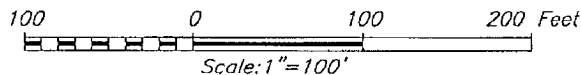
	SIZE	PRESSURE	DESCRIPTION
A	2-1/16"	5000 psi	Manual Choke
B	2-1/16"	5000 psi	Gate Valve
C	4-1/16"	5000 psi	Gate Valve

SECTION 21, TOWNSHIP 22 SOUTH, RANGE 36 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF DELAWARE BASIN ROAD
AND WEAVER ROAD, GO WEST APPROX. 0.9 MILES.
TURN RIGHT AND GO SOUTH APPROX. 1.3 MILES. TURN
LEFT AND GO SOUTHEAST APPROX. 0.45 MILES. THIS
LOCATION IS APPROX. 150 FEET SOUTH OF THE ROAD.

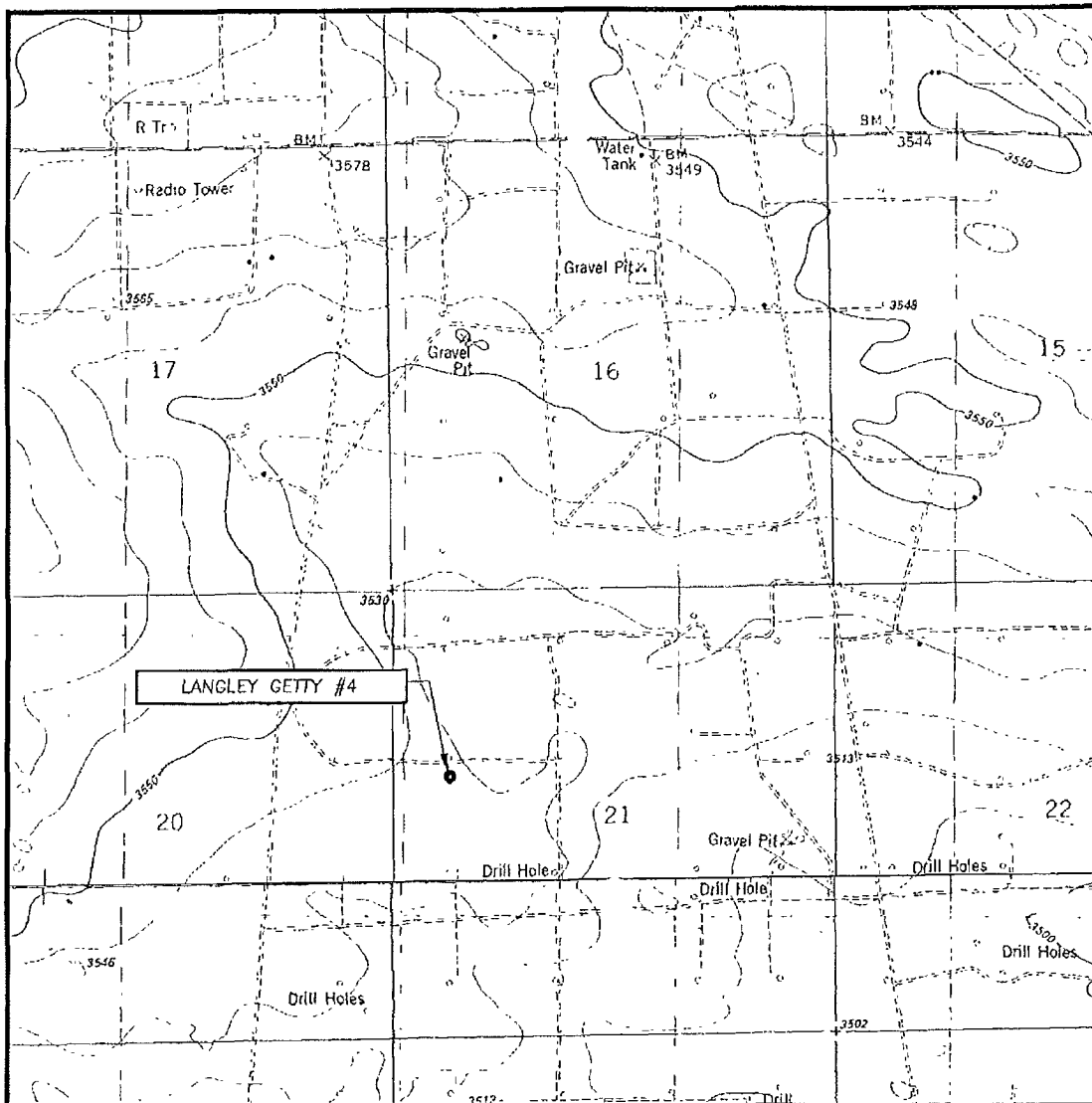


CHESPEAKE OPERATING, INC.

LANGLEY GREER #4 WELL
LOCATED 2175 FEET FROM THE NORTH LINE
AND 710 FEET FROM THE WEST LINE OF SECTION 21,
TOWNSHIP 22 SOUTH, RANGE 36 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

Survey Date: 5/7/08	Sheet 1 of 1 Sheets
W.O. Number: 08.11.0733	Dr By: LA
Date: 5/12/08	08110733
	Scale: 1"=100'

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

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

SEC. 21 TWP. 22-S RGE. 36-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

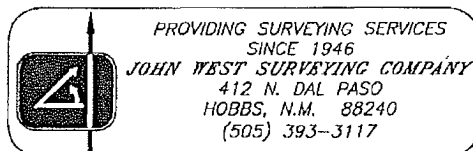
DESCRIPTION 2175' FNL & 710' FWL

ELEVATION 3539'

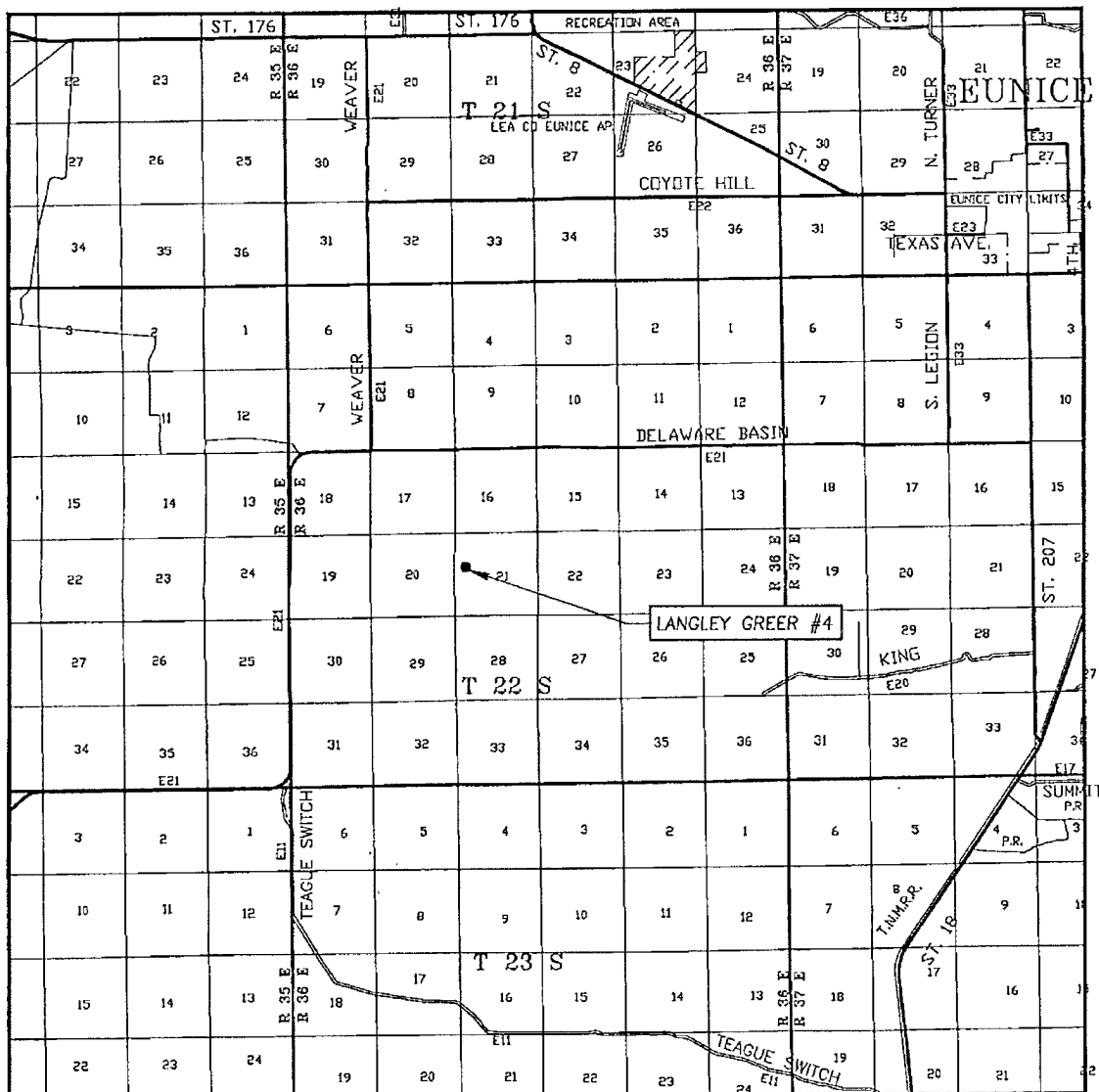
OPERATOR CHESPEAKE
OPERATING, INC.

LEASE LANGLEY GREER

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



VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 21 TWP. 22-S RGE. 36-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 2175' FNL & 710' FWL

ELEVATION 3539'

OPERATOR CHESPEAKE
OPERATING, INC.

LEASE LANGLEY GREER



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