File Review AP-73 Chesapeake/State L #2 Tank Battery

Chesapeake: Bradley Blevins 575-391-1462 <u>bblevins@chkenergy.com</u> Arcadis: Sharon Hall 432-687-5400 <u>shall@arcadis-us.com</u>

East of Buckeye. C-19-17S-36E

State L #1/Chesapeake 30-025-23719, 990 FNL 1890 FWL

State L #2/Chesapeake 30-025-23852, 2310 FSL 330 FWL (Unit L) Why this site is called the "L-2" is a mystery to me.

• 3/20/12 Stage 1 Abatement Report by Arcadis

5 wells and 9 soil borings have been advanced. Elevated chlorides and limited hydrocarbons in soils. Elevated chlorides and hydrocarbons in groundwater from one downgradient well.

Initial investigation by BBC in May 2007 after abandonment of the battery. 6 borings advanced with one (SB-1) converted to a temporary well. Chloride and benzene in the water from that well were beyond standards.

OCD notified of release via email on 5/30/07. OCD sends letter on 6/19/07 requesting Stage 1 Abatement Plan.

Stage 1 plan submitted on 8/22/07 proposing 4 additional bores, each converted to a monitoring well. Inquiry made on 4/24/10 about status of that plan and desire to initiate fieldwork. OCD responds on 4/27/10 that plan has not been reviewed due to staffing issues. On 6/23/10 BBC requests waiver of public notice and OCD says no, but that Chesapeake may proceed "at risk". On 7/12/10 OCD notified by registered mail that Chesapeake was planning to begin on or about 8/23/10 after submitted public notice. OCD does not respond.

EM survey conducted on 8/2 and 8/4/10. Indicates soil contamination to a depth of 49 feet in the area of the former battery and there may have been a pit to the southwest of the battery

On 8/23 thru 8/25/10 a group of 8 bores advanced, 5 of which were converted to monitoring wells. Groundwater samples gathered on 8/8/10 (How is that possible as the wells were not yet installed).

Arcadis samples groundwater on 9/13/11. Chloride in excess of standards in 3 wells; MWs-2, -4 and -5. Benzene above standard in MW-4

DTW is ~46 ft bgs

Chesapeake

5.2.00

CUTCH

CLOSURE REPORT

STATE L #2 RELEASE SITE REF: 160024

UL-E (SW¼ OF THE NW¼) OF SECTION 19 T17S R36E ~9.0 Miles Southwest of Lovington Lea County, New Mexico

LATITUDE: N 32° 49' 21.74" LONGITUDE: W 103° 23' 55.79"

OCTOBER 2005

PREPARED BY:



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Project Summary

Site Specific:

- Company Name: Chesapeake Energy
- Facility Name: State L #2
- Project Reference 460024
- Company Contacts: Bradley Blevins
- ◆ Site Location: ₩GS84-N32° 49' 21.743"; ₩103° 23' 55.798"
- ◆ Legal Description: Unit Letter E, (SW¼ of the NE¼), Section 19, T17S, R36E
- General Description: approximately 9.0-miles southwest of Lovington, New Mexico
- Elevation: 3,898-ft amsl Depth to Ground Water: <50-ft
- ◆ Land Ownership: Darr Angell
- EPI Personnel: Project Consultant Pat McCasland
 - Site Foreman David Robinson

Release Specific:

- ◆ Product Released: Produced Water (≈-60 bbts): and Crude Oil (≈ 5 bbts)
- ◆ Volume Released: ≈65-bbl reported Volume Recovered: 0-bbl
- Time of Occurrence: 11-Aug-05 @ 17:00 hrs Time of Discovery: 11-Aug-05
- Release Source: Structural integrity of a 2-inch polyethylene flowline was compromised
- Initial Surface Area Affected: ≈8,000-ft²

Remediation Specific:

- Final Vertical extent of contamination: 16-ft bgs; Remaining depth to ground water: <50-ft
- Water wells within 1,000-ft: 0
 Surface water bodies within 1,000-ft: 0
- NMOCD Site Ranking Index: 20 points (<50-ft to top of water table)
- Remedial goals for Soil: TPH 100 mg/kg; BTEX 50 mg/kg; Benzene 10 mg/kg; Chloride and Sulfate residuals may not be capable of impacting groundwater above NMWQCC groundwater standards of 250 mg/kg, and 600 mg/kg, respectively.
- RCRA Waste Classification: Exempt
- Remediation Option Selected: a) Excavation of contaminated soil above NMOCD remedial goals; b) laboratory analyses to confirm removal of soil impacted above NMOCD remedial thresholds and NMWQCC groundwater standards; c) dispose of impacted soil at a state approved disposal facility; d) backfill excavation with clean soil
- Disposal Facility: Sundance Services, Inc. Volume disposed of: 1,078-yd³
- Project Completion Date: 23 September 2005
- Additional Commentary: None

1.0 Introduction & Background

This report addresses the site investigation and remediation of the Chesapeake Energy State L #2 flowline remediation site. On August 12, 2005, Environmental Plus, Inc. (EPI) was notified by Chesapeake Energy regarding a recently discovered produced water and crude oil release from a two inch polyethylene flowline. This site is located approximately 9.0 miles southwest of Lovington, Lea County, New Mexico (reference *Figure 1*). The initial C-141 Form submitted to the New Mexico Oil Conservation Division (NMOCD) on September 1, 2005, reports the release volume as approximately 65-barrels (bbls), comprised of approximately 60 bbls produced water and 5 bbls of crude oil with no recovery. EPI performed GPS surveying, photography and characterization of the site on August 12, 2005. The initial site consisted of an approximate 8,000 square feet (ft^2) visibly affected surface area, with approximately 1,400 ft² impacted within the overspray area (reference *Figure 3*).

Initial activities at the site consisted of excavating saturated soil and stockpiling on plastic. On August 23, 2005, a composite soil sample was collected from the stockpiled soil and submitted for laboratory quantification of chloride concentrations. On August 31, 2005, soil samples were collected from a test trench excavated to a depth of 18-feet below ground surface (bgs) and 11 locations within the impacted area. A portion of each sample was analyzed in the field for the presence of organic vapors utilizing an UltraRae photoionization detector (PID) equipped with a 9.8 electron-volt (eV) lamp and chloride concentrations utilizing LaMotte Chloride Test Kit. In addition, a portion of each sample was submitted for laboratory confirmation to ensure the extents of contamination had been delineated.

Once the extents of contamination had been delineated, remediation activities commenced. Remediation of this site consisted of the excavation of approximately 1,078 cubic yards (yds³) of contaminated soil from what was ultimately a 2,800-ft² excavation extending to a maximum depth of 16-feet below ground surface (bgs). The contaminated soil was transported to Sundance Services, Inc. for disposal.

On September 6, 2005, soil samples were collected from the excavation floor and sidewalls. A portion of each sample was placed in a laboratory provided container, set in ice and submitted to an independent laboratory for quantification of benzene, toluene, ethylbenzene and total xylenes (BTEX), total petroleum hydrocarbons (TPH) and chloride concentrations. The remaining portion of each soil sample was analyzed in the field for the presence of organic vapors utilizing an UltraRae photoionization detector (PID) equipped with a 9.8 electron volt (eV) lamp.

Laboratory analytical results indicated all contaminant concentrations were less than the NMOCD hydrocarbon remedial thresholds and New Mexico Water Quality Control Commission (NMWQCC) groundwater standards. The construction phase of the site remediation commenced on August 31, 2005 and was completed with backfilling and contouring on September 23, 2005.

This release site is located in Unit Letter E, (SW¹/₄ of the NW¹/₄), Section 19, T17S, R36E, N32° 49' 21.74" and W103° 23' 55.79". The site is approximately 9-miles southwest of Lovington, New Mexico on property owned by Mr. Darr Angell (reference *Figures 1 through 3*).

2.0 Site Description

2.1 Geological Description

<u>The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and</u> <u>Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A.</u> <u>Clebsch, 1961</u>, describes the near surface geology of southern Lea County as "an intergrade of the Quaternary Alluvium (QA) sediments (i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation). Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and generally overlain by sandy soil."

The release site is located in the High Plains physiographic subdivision, described by Nicholson & Clebsch as "a flat, gently sloping plain, treeless and marred only by slight undulations and covered with short prairie grass."

2.2 Ecological Description

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of sandy soil covered with short prairie grasses, primarily Blue Grama grass and Buffalograss, interspersed with Honey Mesquite (*Prosopis glandulosa*) and forbs. Mammals represented, include Orrd's and Merriam's Kangaroo Rats, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Mule Deer, Bobcat, Red Fox and Coyote. Reptiles, amphibians, and birds are numerous and typical of the area. A survey of Listed, Threatened, or Endangered species was not conducted.

2.3 Area Groundwater

The unconfined groundwater aquifer at this site is projected to be <50-ft bgs based on limited water depth data obtained from the New Mexico State Engineers Office data base and information provided by the landowner. Groundwater gradient in this area is generally to the east-southeast.

2.4 Area Water Wells

There are no water supply wells located within a 1,000 foot radius of the release site.

2.5 Area Surface Water Features

There are no surface water bodies within a 1,000 foot radius of the release site.

3.0 NMOCD Site Ranking

Contaminant delineation and remedial work done at this site indicate that the chemical parameters of the soil and the physical parameters of the groundwater were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the following New Mexico Oil Conservation Division (NMOCD) publications:

- Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993); and
- Unlined Surface Impoundment Closure Guidelines (February 1993)

Acceptable thresholds for contaminants/constituents of concern (CoC) were determined based on the NMOCD Ranking Criteria as follows:

- Depth to Ground water (i.e., distance from the lower most acceptable concentration to the ground water);
- Wellhead Protection Area (i.e., distance from fresh water supply wells);
- Distance to Surface Water Body (i.e., horizontal distance to all down gradient surface water bodies).

Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to groundwater from the lower most contamination, the NMOCD ranking score for the site is 20 points with the soil remedial goals highlighted in the Site Ranking table presented below.

1. Ground Water		2. Wellhead Pro	otection Area	3. Distance to Surface Water		
Depth to GW <50 points	feet: 20		ı water source, or; vate domestic water	<200 horizontal feet: 20 points		
Depth to GW 50 t 10 points	o 99 feet:	source: 20 po		200-1,000 horizontal feet: 10 points		
Depth to GW >10 0 points	0 feet:		n water source, or; vate domestic water nts	>1,000 horizontal feet: <i>0 points</i>		
Ground Water Sc	ore = 20	Wellhead Prot	tection Score= 0	Surface Water Score= 0		
Site Rank (1+2+3) = 20 + 0 +	0 = 20 points		• • • • • • • • • • • • • • • • • • •		
Total Site Rankin	g Score an	d Acceptable R	emedial Goal Concent	rations		
Parameter	20	or >	10	0		
Benzene ¹	10 p	opm	10 ppm	10 ppm		
BTEX ¹	50 ;	opm	50 ppm	50 ppm		
ТРН	100	ppm	1,000 ppm	5,000 ppm		

¹ A field soil vapor headspace measurement of 100 ppm may be substituted for a laboratory analysis of the benzene and BTEX concentration limits.

4.0 Subsurface Soil Investigation

Excavation of soil impacted above the NMOCD remedial thresholds commenced on August 11, 2005 with the excavation and stockpiling of saturated soil on plastic. The vertical extent of contamination from the produced water and crude oil release was determined with a test excavation at the point of release (POR) to a depth of 18-ft bgs on August 31, 2005. The lateral extent of contamination was determined with PID and chloride analyses in the field as the excavation progressed outwardly from the POR. Organic vapor concentrations were measured in the field utilizing an UltraRae PID equipped with a 9.8 eV lamp; chloride concentrations were measured in the field utilizing a La Motte Chloride Reactant #2 Field Titration Kit.

To verify soil impacted above NMOCD remedial thresholds and NMWQCC groundwater standards had been excavated, composite soil samples were collected on September 7, 2005, from the floor and sidewalls of the excavation and analyzed in the field to quantify chloride concentrations and verify remedial limits had been achieved. Field analyses indicated chloride concentrations ranged from 280 to 320 ppm with an average concentration of 312 ppm (reference *Table 1*).

Upon completion of excavation activities, samples were collected and submitted to an independent laboratory for quantification of chlorides, TPH and BTEX constituent concentrations. Analytical results indicated hydrocarbon concentrations for all analytes were not detected at or above laboratory method detection limits. Chloride concentrations were reported to range from 16.0 to 80.0 mg/Kg, below NMWQCC chloride groundwater standards of 250 mg/L (reference *Table 1 and Appendix I*).

5.0 Groundwater Investigation

The projected depth to groundwater at this site is <50-ft bgs. Excavation of the site was to a maximum depth of sixteen feet. Final field analyses for the composite soil samples collected from the east, west, north and south sidewalls and floor of the excavation indicated chloride concentrations ranged from 240 ppm to 320 ppm (reference *Table 1*). Laboratory analytical results for the samples collected from the sidewalls and base of the excavation indicated TPH and BTEX concentrations were not detected at or above each analytes' respective laboratory method detection limit (MDL). Reported chloride concentrations for these samples ranged from 16 to 80 mg/Kg (reference *Table 1 and Appendix I*).

The excavation was backfilled with clean soil purchased from the property owner (Mr. Darr Angell). Based on the treatment of impacted soil to below remedial goal concentrations and adequate depth to groundwater, there is no need for further groundwater investigation at this site.

6.0 Remediation Process

Remediation of the site commenced on August 31, 2005 and continued through September 23, 2005. Remedial activities at the site consisted of excavation and disposal of 1,078 yd³ of produced water and crude oil impacted soil from the site. After laboratory analyses of soil samples collected from the sidewalls and base of the excavation indicated remedial goals had been achieved, the excavation was backfilled with clean soil purchased from the landowner. The backfilling and contouring of the site was completed on September 23, 2005.

7.0 Closure Justification

This report documents successful treatment of impacted soil above the remedial thresholds discussed in Section 3 above and confirmed via laboratory analyses for this release site. The impacted soil was excavated and disposed of at Sundance Services, Inc. The excavation was backfilled with clean soil purchased from the landowner and contoured to allow natural drainage. Based on the data presented in this report, Environmental Plus, Inc., on behalf of Chesapeake Energy, requests that the NMOCD require "no further action" at this site and issue a *Site Closure Letter*.

FIGURES









Summary of Soil Sample Laboratory Analytical Results

Sample I.D.	Depth (feet)	Soil Status	Sample Date	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SCSL082305SP	Comp	Excavated	23-Aug-05	NA	NA ¹	NA	NA ^I	NA	NA ¹	NA ¹	NA ¹	3,679
CSL283105 8-2	2	Excavated	31-Aug-05	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	14.3	14.3	609
CSL283105 9-2	2	Excavated	31-Aug-05	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<20.0	1,970
CSL283105 T-18	18	Excavated	31-Aug-05	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<20.0	36.4
CSL283105 T-12	12	Excavated	31-Aug-05	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<20.0	22.8
CSL283105 T-15	15	Excavated	31-Aug-05	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<20.0	26.2
CSL283105 10-2	2	Excavated	31-Aug-05	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<20.0	58.1
CSL283105 11-2	2	Excavated	31-Aug-05	<0.0250	<0.0250	<0.0250	<0.05	<0.125	<10.0	<10.0	<20.0	73.9
CSL29605NSW-C	Comp	In Situ	06-Sep-05	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	64.0
CSL29605SSW-C	Comp	In Situ	06-Sep-05	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	16.0
CSL29605ESW-C	Comp	In Situ	06-Sep-05	<0.005	<0.005	< 0.005	<0.015	<0.03	<10.0	<10.0	<20.0	32.0
CSL29605WSW-C	Comp	In Situ	06-Sep-05	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	16.0
CSL29605BH-C	Comp	In Situ	06-Sep-05	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	80.0
NMOC	D Remedi	ial Threshold	ds	10				50			100	250 ²

Chesapeake Energy- State L #2 (Ref.# 160024)

Bolded values are in excess of NMOCD Remediation Thresholds

[†] NA⇔Not Analyzed

²Chloride residuals may not be capable of impacting local groundwater above the NMWQCC standards of 250 mg/L.

Comp -: Composite sample

<u>Well Data</u>

Chesapeake Energy State L #2 (Ref. #160024)

Well Number	Diversion ^A	Owner	Use	Twsp	Rog	Sec q q q	Latitude	Longitude	Date Measured	Well Depth (ft bgs)	Depth to Water (ft bgs)
L 01919	242.1	NOLAN H. BRUNSON	IRR	175			32° 48' 33.62"			135	
L 01919 S		NOLAN H. BRUNSON		175	36E	30 2 2 2	and the second second second second	103° 22' 19.24"	14-Jun-01	225	110
L 04171	3	NORWOOD DRILLING COMPANY	PRO	175	36E	18 1 4		103° 23' 52.25"	09-Jun-59	128	128
L 04171 APPRO		NORWOOD DRILLING COMPANY		175	36E	20 2 1	32° 50' 4.77"	103° 23' 52.25"	09-Jun-59	128	128
L 04549	3	INC. CARPER DRILLING CO.	PRO	17S		20 2 1	32° 49' 26"	103° 22' 34.92"	05-Nov-60	121	48
L 04549 APPRO		INC. CARPER DRILLING CO.		175	36E	20 2 1	32° 49' 26"	103° 22' 34.92"	05-Nov-60	121	48
L 04570	220.2	NOLAN H. BRUNSON JR.	IRR	17S	36E	29 2 3 1	32° 48' 20.54"	103° 22' 34.68"		106	
L 04570 S		NOLAN H. BRUNSON JR.		17S	36E	29 2 4 4	32° 48' 20.7"	103° 22' 19.17"		205	
L 04599	3	GARDNER BROTHERS DRILLING CO.	PRO	17S	36E	20 1 2	32° 49' 25.91"	103° 22' 50.39"	16-Feb-61	128	38
L 04599 APPRO		GARDNER BROTHERS DRILLING CO.		17S	36E	20 1 2	32° 49' 25.91"	103° 22' 50.39"	16-Feb-61	128	38
L 04601	0	NOBLE DRLG. CORP.	PRO	17S	36E	30	32° 47' 53.71"	103° 24' 6.86"	22-Jan-61	125	50
L 04602	3	HUMBLE OIL & REFINING COMPANY	PRO	175	36E	17342	32° 49' 39.02"	103° 22' 50.42"	16-Feb-61	115	45
L 04602 APPRO		HUMBLE OIL & REFINING COMPANY		175	36E	17 432	32° 49' 39.1"	103° 22' 34.96"	16-Feb-61	115	45
L 04876	. 0	INC. B.L. MCFARLAND	PRO	17S	36E	2934	32° 47' 54.16"	103° 22' 50.1"	12-Apr-62	130	75
L 05181	0	LOFFLAND BROTHERS COMPANY	PRO	17S	36E	20 1 4	32° 49' 12.8"	103° 22' 50.36"	21-Jun-63	125	75
L 05361	0	LOWE DRILLING CO.	PRO	17\$	36E	20	32° 48' 46.48"	103° 23' 5.79"	11-Apr-64	123	90
L 05407	0	TRI SERVICE DRILLING COMPANY	PRO	17S	36E	1914	32° 49' 12.37"	103° 23' 52.27"	10-Jun-64	108	49
L 05407(1)	0	TRI-SERVICE DRILLING COMPANY	PRO	17S	36E	1914	32° 49' 12.37"	103° 23' 52.27"			
L 07790	0	SOUTHWESTERN PUBLIC SERVICE CO	IND	17S	36E	29 4 3	32° 47' 54.38"	103° 22' 34.56"		225	
L 07791	0	SOUTHWESTERN PUBLIC SERVICE CO	IND	17S	36E	29 3 3	32° 47' 53.94"	103° 23' 5.63"		225	
L 07792	0	SOUTHWESTERN PUBLIC SERVICE CO	IND	175	36E	30 4	32° 47' 53.82"	103° 23' 36.73"		225	
L 07793	200	SOUTHWESTERN PUBLIC SERVICE CO	IND	17S	36E	30 2	32° 48' 20.05"	103° 23' 36.74"			
L 07794	200	SOUTHWESTERN PUBLIC SERVICE CO	IND	17S	36E	30 1	32° 48' 19.9"	103° 24' 6.81"			
L 07862	3	R. A. ROGERS	DOM	17S	36E	20 3 4	32° 48' 46.59"	103° 22' 50.3"	13-Apr-78	110	58
L 07907	3	NOLAN H. JR. BRUNSON	DOM	17S	36E	29 2 3	32° 48' 20.54"	103° 22' 34.68"	05-Jun-78	150	45
L 08266 (6) EXP	0	ARCO OIL COMPANY	PRO	17S	36E	19 1 3 1	32° 48' 20.21"	103° 23' 5.71"			
L 08266 (7) EXP	0	TMBR SHARP DRILLING CO.	PRO	17S	36E	29 1 3 1	32° 48' 20.21"	103° 23' 5.71"			
L 09342	3	GREAT WESTERN DRILLING CO.	STK	175	36E	20	32° 48' 46.48"	103° 23' 5:79"	28-Sep-83	138	60
L 10681	3	GOFF DAIRY	STK	178	36E	1941	32° 48' 59.38"	103° 23' 36.77"	02-Jul-97	120	40
L 04503	3	TRI SERVICE DRILLING CO.	PRO	175	35E	24 2	32° 49' 12.51"	103° 24' 37.95"	10-Sep-60	90	43
L 04503 APPRO	1	TRI SERVICE DRILLING CO.		17S	35E	24 2	32° 49' 12.51"	103° 24' 37.95"	10-Sep-60	90	43
L 04875	0	INC. A.W. THOMPSON	PRO	.175	35E	25 211	32° 48' 33.26"	103° 24' 38.04"	12-Apr-62	130	71
L 06723 EXP	0	GILES M. LEE	DOM	175	35E	25 1 4 2	32° 48' 20.27"	103° 24' 53.61"			
L 08124	0	HONDO DRILLING CO.	STK.	17S	35E	25 4 4 4	32° 47' 53.82"	103° 24' 22.4"	03-Aug-79	125	58
L 08124 EXP		HONDO DRILLING CO.		17S	35E	25 4 4	32° 47' 53.82"	103° 24' 22.4"			
L 08124(1) EXP	0	BTA OIL PRODUCERS.	STK	17\$	35E	25 4 4 4	32° 47' 53.82"	103° 24' 22.4"	1		
L 08124 (2) EXP	0	PIONEER PRODUCTION CORPORATION	PRO	175	35E	25 4 4 4	32° 47' 53.82"	103° 24' 22.4"			
L 08124 (3) EXP	0	BTA OIL PRODUCERS	PRO	17S	35E	25 4 4 4	32° 47' 53.82"	103° 24' 22.4"			
L 08731	391	SOUTHWESTERN PUBLIC SERVICE	IND	17S			32° 48' 20.27"	103° 24' 53.61"			
L 09727 EXP	0	GILES M LEE	DOM	175	35E	25 4	32° 47' 53.92"	103° 24' 37.94"			
L 10121	0	GILES M. LEE	STK	17S	35E	24 1 3 2	32° 48' 59.44"	103° 24' 38.01"			
L 10121 EXP	, <u>, , , , , , , , , , , , , , , , , , </u>	GILES M. LEE	•	17S	_		32° 48' 59.7"	103° 25' 9.28"			
L 10121 (1)	0	ORYX ENERGY CO.	PRO	17S		Contractory of the local division of the loc	32° 48' 59.7"	103° 25' 9.28"			

<u>Well Data</u>

Chesapeake Energy State L #2 (Ref. #160024)

Well Number	Diversion ^A	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Well Depth (ft bgs)	Depth to Water (ft bgs)
USGS #1				17S	35E	36311	32° 47' 10"	103° 24' 55"	16-Jan-01	110	52.23
USGS #2				17S	35E	29 2 1 1	32° 48' 31"	103° 22' 23"	08-Feb-96	135	49.44
USGS #3				17S	35E	24 2 2 3	32° 49' 18"	103° 24' 6"	16-Jan-01	90	44.35
USGS #4				175	35E	18 4 4 4	32° 49' 26"	103° 23' 2"	12-Jan-01	120	39.77
USGS #5			Ι	17S	35E	17 4 4 1	32° 49' 36"	103° 22' 2"	25-Jan-96	100	44.2
USGS #6				175	35E	11 1 1 1	32° 51' 6"	103° 26' 0"	14-Feb-96	128	42.56
USGS #7				175	36E	19211			16-Jan-86		37.46
USGS #8				17S	36E	17 3 4 3			26-Feb-76		39.99
USGS #9				17S	36E	17 4 4 1		ta ana a	25-Jan-96		44.2
USGS #10	•			175	36E	18 4 4 4			25-Jan-96		38.36
USGS #11				17S	35E	13 3 2 2			09-Feb-96		44.5 .
USGS #12				175	35E	24 1 1 3			19-Dec-90		37.07
USGS #13				175	35E	24 2 2 3			25-Jan-96	•	43.16
USGS #14				175	35E	24 3 1 2			19-Dec-90	·	36.78
USGS #15				175	35E	25 1 3 1			04-Mar-76		43.6
USGS #16				17S	35E	29 2 1 1			08-Feb-96		49.44
USGS #17				175	35E	30 1 1 3			03-Mar-61		39.4

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1) Shaded areas indicate well locations shown on Figure 2

 A = in acre feet per annum

IND = Industrial

IRR = Irrigation

DOM = Domestic

EXP = Exploration

PRO= Prospecting or Development of Natural Resources

STK= Livestock Watering

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are biggest to smallest

APPENDIX I

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORM

ANALYTICAL RESULTS NOT INCLUDED IN DRAFT COPY OF REPORT

PROJECT PHOTOGRAPHS

APPENDIX II



Photo #1: Release area, looking northerly along the flowline. Photo #2: Release area, looking northerly. Notice soil Notice soil staining in center of photograph.



Photo #3: Overspray area, looking westerly.



Photo #4: Looking down into excavation.



Photo #5: Site graded and contoured, looking southerly.



Photo #6: Site graded and contoured, looking westerly.

Pistrict I 1625 N. French Dr., Hobbs, NM 88240 State of New Mexico Form C-1 District II 1000 Rio Brazos Road, Aztec, NM 87410 District III Oil Conservation Division State of New Mexico Form C-1 District IV 1220 South St. Francis Dr., Santa Fe, NM 87505 Oil Conservation Division Submit Copies to appropriate of fice in accordant on accorda
OPERATOR Initial Report Final Report Name of Company: Chesapeake Energy Contact: Bradley Blevins Address: 5014 Carlsbad Highway Telephone No.: (505) 391-1462 ext. 24 Address: 5014 Carlsbad Highway Telephone No.: (505) 391-1462 ext. 24 Facility Name: State L #2 Facility Type: Flowline Surface Owner: Darr Angell Mineral Owner: LocATION OF RELEASE
Address: 5014 Carlsbad Highway Telephone No.: (505) 391-1462 ext. 24 Facility Name: State L #2 Facility Type: Flowline Surface Owner: Darr Angell Mineral Owner: LOCATION OF RELEASE
Facility Name: State L #2 Facility Type: Flowline Surface Owner: Darr Angell Mineral Owner: LOCATION OF RELEASE
Surface Owner: Darr Angell Mineral Owner: LOCATION OF RELEASE
LOCATION OF RELEASE
Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County
E 19 17S 36 E Lea
Latitude: N 32° 49' 21.74" Longitude: W 103° 23' 55.79"
NATURE OF RELEASE
Type of Release: Produced Water (60 bbls) and Oil (5 bbls)Volume of Release: 65Volume Recovered: 0 gallons
Source of Release: FlowlineDate and Hour of Occurrence: August, 11 2005 @ 5:00 P.M.Date and Hour of Discovery: August 11, 2005 @ 5:00 P.M.
Was Immediate Notice Given? If YES, To Whom?
Yes No Not Required Larry Johnson, NMOCD-Hobbs
By Whom? Bradley Blevins, Chesapeake Date and Hour: August 12, 2005 @ 8:46 A.M.
Was a Watercourse Reached? If YES, Volume Impacting the Watercourse: Ves X No
Yes No If a Watercourse was Impacted, Describe Fully.* Not Applicable
Describe Cause of Problem and Remedial Action Taken.* Polyethylene flowline release of produced water and oil. Saturated soil was scraped up a
placed on plastic. Upon conclusion of remedial excavation, saturated soil was disposed of at Sundance Services, Inc.
Describe Area Affected and Cleanup Action Taken.* Approximately 8,000 square feet of surface area was impacted by the release, with approximat 1,400 square feet of soil saturated. Approximately 1,204 cubic yards of impacted soil was excavated and transported to Sundance Services, Inc. disposal. The excavation was backfilled with clean soil purchased from the landowner and contoured to allow drainage.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules a regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endan public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liabi should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human here or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any ot federal, state, or local laws and/or regulations.
OIL CONSERVATION DIVISION
Signature: Printed Name: Bradley Blevins Approved by District Supervisor:
Title: Field Technician Approval Date: 3.2.06 Expiration Date:
E-mail Address: bblevins@chkenergy.com
Date: Phone: (505) 391-1462 ext. 24 Conditions of Approval:
* Attach Additional Sheets If Necessary NO FORTHER ACTION REALIRED

, A



31 October 2006

Mr. Larry Johnson **Environmental Engineer** New Mexico Oil Conservation Division 1625 North French Drive Hobbs, New Mexico 88240



Initial C-141 Re: **Chesapeake Energy** #1 State L (EPI Reference #160078) UL-C, Section 19, Township 17 South, Range 36 East

Dear Mr. Johnson:

Environmental Plus, Inc., on behalf of Mr. Bradley Blevins, Chesapeake Energy Corporation (Chesapeake), submits the attached New Mexico Oil Conservation Division (NMOCD) form C-141 for the above-referenced leak site, located on land owned by the state of New Mexico.

The site is located approximately 9 miles northeast of Lovington, New Mexico (reference Figure 1). Information obtained from the New Mexico Office of the State Engineer's website and a United States Geological Survey (USGS) database indicates no water supply wells within a 1,000-foot radius of the release site. However, there are eleven water supply wells located within a 1.0-mile radius of the release site (reference Figure 2). Groundwater level data indicates an average depth to water of approximately 53 feet below ground surface (reference *Table 1*). The attached site information and metrics form ranks the site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993).

Approximately fifteen (15) barrels of oil were released when a union on a flow-line failed with zero (0) barrels recovered.

P.O. BOX 1558 ··· 2100 WEST AVE. O ··· FUNICE, NEW MEXICO 88231 TELEPHONE 505+394+3481

FAX 505+394+2601

Should you have any questions or concerns please feel free to contact me at (505) 394-3481 or via email at <u>dduncan@envplus.net</u> or Mr. Bradley Blevins at (505) 391-1462 ext. 6224 or via e-mail at <u>bblevins@chkenergy.com</u>. All official communication should be addressed to:

> Mr. Bradley Blevins Chesapeake Energy P.O. Box 190 Hobbs, New Mexico 88240

Sincerely,

ENVIRONMENTAL PLUS, INC.

David P. Duncan Civil Engineer

 cc: Bradley Blevins, Chesapeake Energy – Hobbs, NM Curtis Blake, Chesapeake Energy – Hobbs, NM Harlan Brown, Chesapeake Energy – Oklahoma City, OK Thaddeus Kostrubala – New Mexico State Land Office Myra Meyers – New Mexico State Land Office File







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Well Data

Chesapeake Energy - #1 State L (Ref. # 160078)

									Dato	Surface	Depth to
	Diversion ^A	Owner	Use T	Twsp H	Rng	Sec q q q	Latitude	Longitude	Measured	Elevation ^B	Water
			-								(ft bgs)
-	0	TRI SERVICE DRILLING COMPANY	PRO	17S 3	36E 1	19 14	N32° 49' 12.37"	W103° 23' 52.27"	10-Jun-64	3,894	49
	0	TRI-SERVICE DRILLING COMPANY	PRO	17S 3	36E 1	19 14	N32° 49' 12.37"	W103° 23' 52.27"		3,894	
	3	GOFF DAIRY	STK	17S 3	36E 1	1941	N32° 48' 59.38"	W103° 23' 36.77"	02-Jul-97	3,885	40
	3	HUMBLE OIL & REFINING COMPANY	PRO	17S 3	36E 1	1342	N32° 49' 39.02"	W103° 22' 50.42"	16-Feb-61	3,885	45
				17S 3	36E 1	17 432	N32° 49' 39.10"	W103° 22' 34.96"	16-Feb-61	3,881	45
-	3	NORWOOD DRILLING COMPANY	PRO	17S 3	36E 1	18 14	N32° 50' 4.77"	W103° 23' 52.25"	09-Jun-59	3,904	128
\square	e	INC. CARPER DRILLING CO.	PRO	17S 3	36E 2	20 2 1	N32° 49' 26.00"	W103° 22' 34.92"	05-Nov-60	3,878	48
	3	GARDNER BROTHERS DRILLING CO.	PRO	17S 3	36E 2	20 1 2	N32° 49' 25.91"	W103° 22' 50.39"	16-Feb-61	3,881	38
_	0	LOFFLAND BROTHERS COMPANY	PRO	17S 3	36E 2	20 1 4	N32° 49' 12.80"	W103° 22' 50.36"	21-Jun-63	3,878	75
	0	LOWE DRILLING CO.	PRO	17S 3	36E 2	20	N32° 48' 46.48"	W103° 23' 5.79"	11-Apr-64	3,877	96
	3	R. A. ROGERS	DOM	17S 3	36E 2	20 3 4	N32° 48' 46.59"	W103° 22' 50.30"	13-Apr-78	3,872	58
	3	GREAT WESTERN DRILLING CO.	STK	17S 3	36E 2	20	N32° 48' 46.48"	W103° 23' 5.79"	28-Sep-83	3,877	60
				17S 3	36E 2	29 2 2 2	N32° 48' 33.75"	W103° 22' 19.24"	14-Jun-01	3,868	110
	3	NOLAN H. JR. BRUNSON	DOM	17S 3	36E 2	29 2 3	N32° 48' 20.54"	W103° 22' 34.68"	05-Jun-78	3,865	45
	3	TRI SERVICE DRILLING CO.	_	17S 3	35E 2	24 2	N32° 49' 12.51"	W103° 24' 37.95"	10-Sep-60	3,911	43
	0	INC. A.W. THOMPSON	PRO 1	17S 3	35E 2	25 211	N32° 48' 33.26"	W103° 24' 38.04"	12-Apr-62	3,898	71
	0	GILES M. LEE	DOM		35E 2	25 142	N32° 48' 20.27"	W103° 24' 53.61"		3,910	
				17S 3	35E 1	13 3 2 2			09-Feb-96		44.5
				17S 3	36E 1	17 343			26-Feb-76		39.99
				17S 3	36E 1	1 4 4 1			25-Jan-96		44.2
				17S 3	36E 1	18 444			25-Jan-96		38.36S
-				17S 3	36E 1	19 211			16-Jan-86		37.46
				17S 3	35E 2	24 223			25-Jan-96		43.16
				17S 3	35E 2.	24 312			19-Dec-90		36.78
-				17S 3	36E 2	29 211			08-Feb-96		49.44
				17S 3	36E 3	30 113			03-Mar-61		39.4
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* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1)

 $PRO = 72-12-1 \ Prospecting \ or \ development \ of \ natural \ resource quarters \ are \ 1=NW, \ 2=NE, \ 3=SW, \ 4=SE; \ quarters \ are \ biggest \ to \ smallest \ Shaded \ area \ indicates \ wells \ not \ shown \ in \ Figure \ 2$

STK = 72-12-1 Livestock watering

 B = Elevation interpolated from USGS topographical map based on referenced location. DOM = 72-12-1 Domestic one household

 $^{A} = In$ acre feet per annum



Photograph #1 – Lease sign.



Photograph #2 - Release area, looking northerly.



Photograph #3 - Looking northerly at the overspray area.



Photograph #4 - Looking northerly at the overspray area.

Information and Metrics 26 October 2006 Site: #1 State L Assigned Site Reference : #160078 Company: Chesapeake Operating Street Adfress: P.O. Box 190 City, State, Zip: Hobbs, New Mexico 88240 Representative: Bradley Blevins Supersentative: Bradley Blevins Representative: Bradley Blevins Representative: Bradley Blevins Supersentative: Bradley Blevins Representative: Bradley Blevins Representative: Telephone: -25 bbis: Notift NMOCD verbally within 24 brs and submit form C-141 within 15 days. (Also applies to unauthorized releases of 50-500 mcf Natural Gas) Leak, Spill, or Pti (LSP) Name: #1 State L Source of contamination: Flowline: Lardt Owner, Le., BLM, S.T, Fee, Other: State LSP Area: -14330 ft ² Location of Reference Point (RP): Ladition of Reference Point (RP): Ladition of Meterence Point (RP): Ladition of Meterence Point (RP): Location action Line:			Incident D	ato.	NMOCD N	Jotified.	
Chessipecke Information and Metrics Site: #1 Stat L Company: Chesspeake Operating Street Address: 1616 West Bender Mailing Address: P.O. Box 190 City, State, Zip: Hobbs, New Mexico 88240 Representative: Bradley Blevins Representative: Telephone: Fluid volume released (bbls): 15 bbls Representative: Telephone: Street Address: 2.00 mode of the street (bbls): none >25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases of 06 mode Natural Gas) 5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas) Leak, Spill, or Pit (LSP) Name: #1 State L Source of contamination: Flowline Land Owner, i.e., BLM, ST, Fee, Other: State LSP Dimesions: Unknown LSP Dimesions: Unknown LSP Dimesions: Unknown LSP Outensions: Unknown Latitude: N 32' 49' 29' 16° Location of Reference Point (RP): Location distance and direction from RP: Latitude: N 22' 49' 29' 16° Loogtude: With Stote II.els: Feet from South Section Line: Feet from South Section Line: Locatio							
Information and Metrics Site: #1 State L Company: Chespeake Operating Street Address: 1616 West Bender Mailing Address: P.O. Sox 190 City, State, Zip: Hobbs, New Mexico 88240 Representative: Bradley Blevins Representative: Bradley Blevins Representative: Bradley Blevins (305 391-1462 ext. 6224 Telephone: (305 391-1462 ext. 6224 Fluid volume released (bbls): 15 bbls Recovered (bbls): none >255 bbls: Subiti form C-141 within 15 days (Also applies to unauthorized releases >500 mcf Natural Gas) Leak, Spill, or Pit (LSP) Name: #1 State L Source of contamination: Flowink on the Contamination: Land Owner, I.e., BLM, ST, Fee, Other: State LSP Dimensions: Unknown LSP Area: -14,330 ft Location distance and direction from RP: Latitude: N 32* 49* 20.16° Location distance and direction from RP: Latitude: N 32* 49* 20.16° Location ast Section Line: Feet from East Section Line: Feet from East Section Line: Catadion ast Section Line: Location- Range: 36 East	C	nesaneake	20 October	2000	20 October	2008	
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City, Sfate, Zip: Hobbs, New Mexico 88240 Representative: Bradley Blevins (505) 391-1462 ext. 6224 Fleidvolume released (bbls): 15 bbls Fluid volume released (bbls): 15 bbls Representative: Bradley Blevins Recovered (bbls): none >>252 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas) 5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas) Leak, Spill, or Pit (LSP) Name: #1 State L Source of contamination: Flowline Land Owner, Lee, BLM, ST, Fee, Other: State LSP Dimensions: Unknown LSP Area: -14,330 ft ² Location of Reference Point (RP): Location of Reference Point (RP): Longitude: W 103° 23' 46.41" Elevation above mean sca level: 3,894 feet Feet from East Section Line: Feet from South Section Line: Location- Receion: 19 Location- Receion: 19 Location- Receion: 19 Location- Reare wells within 1000' radius of site: none Domestic water wells within 1000' radius of site: none Domestic water wells within 1000' radius of site: none Domestic water wells within 1000' radi							
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Representative Telephone: (505) 391-1462 ext. 6224 Telephone: Fluid volume released (bbls): 15 bbls Recovered (bbls): none Fluid volume released (bbls): 15 bbls Recovered (bbls): none 25 bbls: Submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas) 5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas) Source of contamination: Float Matural Gas) Leak, Spill, or Pit (LSP) Name: #1 State L Source of contamination: Float Matural Gas) Float Matural Gas) Land Owner, Le., BLM, ST, Fee, Other: State Source of Contamination: Float Matural Gas) Location of Reference Point (RP): Location of Reference Point (RP): Location State Matural Gas) Location of Reference Point (RP): Location State Matural Gas) Float Matural Gas) Location South Section Line: Feet from South Section Line: Float Matural Gas) Location- Contine: Location- Contine: Float Matural Gas) Location- Range: 36 East Surface water body within 1000' radius of site: none Domestic water Source, or; >200' from Ads surface to groundwater (DC); -53 feet Depth form land surface to groundwater (DC); -53 feet If <1000' from water source			88240				
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Leak, Spill, or Pit (LSP) Name: #1 State L Source of contamination: Flowline Land Owner, i.e., BLM, ST, Fee, Other: State LSP Dimensions: Unknown LSP Area: ~1(4,330 ft ² Location distance and direction from RP: Latitude: N 32° 49' 29.16" Longitude: W 103° 23' 46.41" Elevation above mean sea level: 3,894 feet Feet from South Section Line: Feet from South Section Line: Location- Range: 36 East Surface water body within 1000' radius of site: none Domestic water wells within 1000' radius of site: none Domestic water wells within 1000' radius of site: none Domestic water wells within 1000' radius of site: none Domestic water wells within 1000' radius of site: none Depth from land surface to groundwater (DG): ~53 feet Depth to Gw <50 feet: 20 points	5-25 l	obls: Submit form C-141 wi	thin 15 days (Al	so applies to una	uthorized releas	es of 50-500 mcf Natural Gas)	
Source of contamination: Flowline Land Owner, i.e., BLM, ST, Fee, Other: State LSP Dimensions: Unknown LSP Area: ~14,330 ft ² Location of Reference Point (RP): Location above mean sea level: 3,894 feet Feet from South Section Line: Location - Unit or ¼¼: NE½ of the NW¼ Location - Township: 17 South Location - Township: 17 South Location - Township: 17 South Location - Range: 36 East Surface water body within 1000' radius of site: none Domestic water wells within 1000' radius of site: none Agricultural water wells within 1000' radius of site: none Depth from land surface to groundwater (DG): ~53 feet I. Groundwater 2. Wellhead Protection Area If Depth to GW >50 feet: 20 points If Polot) from water source, or, <200' from							
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TWO ppin new YOU neadspace measurement may be substituted for iab analysis			ent may he sub	stituted for lab a	nalvsis	-,	

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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210		f New Mexico Form C-141 s and Natural Resources Revised October 10, 2003						
District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	1220 Sout	crvation DivisionSubmit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form						
		e, NM 87505						
Release		and Corrective Action						
	OPERATOR							
Name of Company: Chesapeake Oper		Contact: Bradley Blevins						
Address: P.O. Box 190, Hobbs, NM & Facility Name: #1 State L	00240	Telephone No.: (505) 391-1462 ext. 6224Facility Type: Flowline						
Surface Owner: State of New Mexico	Mineral Ow	ner: API No.: 30025237190000						
		OF RELEASE						
Unit Letter CSection 19Township 17SRange 36E	Feet from the No	orth/South Line Feet from the East/West Line County Lea						
Latitude: N	32° 49' 29.16" I	Longitude: <u>W 103° 23' 46.41"</u>						
		DF RELEASE						
Type of Release: Crude oil		Volume of Release: 15 bbls Volume Recovered: 0 bbls						
Source of Release: Pipeline		Date and Hour of Occurrence:Date and Hour of Discovery:26 October 2006 in the a.m.26 October 2006 @ 6:00 a.m.						
Was Immediate Notice Given?	o 🔲 Not Required	If YES, To Whom? d Pat Caperton, NMOCD						
By Whom? Bradley Blevins		Date and Hour: October 26, 2006 @ 11:00 a.m.						
	Was a Watercourse Reached? If YES, Volume Impacting the Watercourse: Not Applicable Not Applicable							
If a Watercourse was Impacted, Describe Fully.*	Not Applicable							
Depth to Groundwater: ~53 feet								
(0) barrels of fluid were recovered. Upon discovery of the team worked on the release area continuous from $10/26/06$	release, Chesapeake Op through 10/27/06. Star	tely fifteen (15) barrels of oil were released when a union on a flow-line failed. Zero perating contacted EPI for an Emergency Response team. The Emergency Response nding liquid was solidified and the impacted material loaded on plastic barriers. EPI izontal extent of impacted soil, EPI will provide the NMOCD with a Remediation						
Describe Area Affected and Cleanup Action Tak		14,330 square feet of surface area was affected by the release.						
and regulations all operators are required to report a endanger public health or the environment. The acc operator of liability should their operations have fail	nd/or file certain rele eptance of a C-141 r led to adequately inv addition, NMOCD a							
		OIL CONSERVATION DIVISION						
Signature: Printed Name: Bradley Blevins		Approved by District Superviser:						
Title: Field Supervisor		Approval Date: 11.2.06 Expiration Date: 1-2.07						
		7						
E-mail Address: bblevins@chkenergy.com	2	Conditions of Approval: SUBNIT FINAL CLOSUPE BY						
Date: Phone: (505) 391-146 * Attach Additional Sheets If Necessar		OUDINT INHE CUSUPERI						
Incident - nPACO4 application - pPACO4	, 2133521 313353	14 RP#1110						
application - princip								

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District I PO Box 1980, Hob District II PO Drawer DD, A District III			,	Ebergy, Mider OIL CONS	SERVA	TION	DIVIS		Subi		L	Form C-104 February 10, 1994 instructions on back riate District Office
1000 Rio Bruzos R District IV	d., Ane	, NM 87410		Santa I	PO Bo Fe, NN	x 2088 1 8750	4-2088	3				5 Copies
PO Box 2088, Samt I.			T FOR	IIOWAF	READ		ידייס	017.47	ION TO T			ENDED REPORT
			Operator a	ame and Address		ND AL	THU	MZAI			RID Num	
PERMI	AN RE	ESOURCES	S, INC.	DBA PERMI	LAN PA	RTNERS	S, INC		02579			
P.O. MIDLA		90 TEXAS 79	702								for Filing	
	Number					Pool Nam	e		CO- ef	fect	_	ay 1, 1998 Pool Code
30 - 0 25-23				Vacuum Ab							6178	- 200742422
009012	erty Code 2			State "L"		roperty Na	me					Vell Number
II. ¹⁰ Su	rface	Location									1	
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	ction 1	Hole Loo	Range	Lot Idn	Feet from	m the	North/S	outh line	Feet from the	End	Vest line	
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" Lae Code " S	Produci	ng Method Co P	xde "Gu	Connection Date	• "C	-129 Permi	it Number		C-129 Effective	Date	" C-	129 Expiration Date
III. Oil and	Gas		ters									
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V. Well Cor		on Data										
¹⁶ Spud Di	ate		²⁴ Ready D	ate		" TD			¹¹ PBTD		3*	Perforations
* He	ole Size		10	asing & Tubing	Cia.							
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				······		-						
VI. Well Tes			ivery Date	* Test	Date	Ţ,	Tet	ath				
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" Choke Size			оu	4 Wa			° Gas		" AOF	,		" Test Method
" I hereby certify that with and that the info	ormation g	a of the Oil C given above is	onservation Di true and comp	vision have been deter to the best of	complied f		OI		SERVATI	ם אר	IVISI	ON
knowledge and belief. Signature:	C i	Zioloh.	1			Approved	ORK	GINA : 1	1 A. A. A		14131	
Printed name:	-Mul	NUKIL	<u>ra</u>			Title:	-/.	Diet	······			
Tide: Product		nn Birk	nead			Approval	Date:		. 5			
Date: 4-1-98		CIErk	Phone: 9	15-685-01	13							
" If this is a change	e of open	tor fill in the				ous operato	r					
Pre	vious Op	erator Signat	ure			Printed	Name			Tiu	e	Date

Form C-104 Revised 1-1-89 See Instructions at Bottom of Page -237/9 1702 Lease No. B-2287 ijest Line County n is 10 be sent) 79(004 n is 10 be seni) OK 74005 0-7 ame Res'v Diff Res'v Shoe CKS CEMENT full 24 hours.) ndensate ____ VISION 13 NOTON n na grin na a na sgi ga maanaa na si sa sa sts taken in accordance

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	Tom L. Ingram					
	P.O.Box 1757 Roswell Reaconts) for filing (Check project bias New Wet) Percompletion Charge in Ownership	, New Mexico 88201 / Change in Transporter of: Cili 南辺 Lay Ge Castinghead Gas Courde	<u> </u>	explain)		
	If change of ownership give name and address of previous owner					
IJ.	DESCRIPTION OF WELL AND	LEASE				
	Leose Name State "L"	Vell No. Pool Name, Including F 1 Vacuum Abo Ree	-	Kind of Lease State, Federal	crFee State	B-2287
	Location					1
	Unit Letter C : 99	0 Feet From The North Lir	and 1890	Feet From T	he West	
	Line of Section 19 Tor	waship 17 S Range	36 E , NMPM	Lea		County
ш.	DESIGNATION OF TRANSPOR	TER OF OIL AND NATURAL GA	15			
	None of Authorized Transporter of OII	X or Condensate	Address (Give address)			o be sent)
	Pride Pipeline Compa	ny singhead Gas 🟹 or Dry Gas 🦳	P.O.B. 2436 A	o which approve	ed copy of this form is to	be sent)
	Phillips Petroleum C	ompany	Bartlesville,	Oklahoma		
	If well produces all or liquids, give location of tarks.	Unit Sec. Twp. P.ge.	Yes		2-20-71	
		th that from any other lease or pool,				
	COMPLETION DATA	Oil Well Gas Well	New Well Workover	Deepen	Plug Back Same Res	v. Diff. Res'v.
	Designate Type of Completio	on – (X)			· · · · · · · · · · · · · · · · · · ·	
	Date Spudded	Date Compl. Ready to Prod.	Total Depth		P.B.T.D.	
	Elevations (DF, RAB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay		Tubing Depth	
			L		Depth Casing Shoe	
	Perforations					
		TUBING, CASING, AND				
	HOLE SIZE	CASING & TUBING SIZE	DEPTH SE	т	SACKS CEM	ENI
	TEST DATA AND REQUEST FO	DR ALLOWABLE (Test must be a	fter recovery of total volu	me of load oil a	nd must be equal to or e	xceed top allow-
٠.	OIL WELL	able for this de	pth or be for full 24 hours Producing Method (Fiow)		
	Date First New Cil Run To Tanks	Date of Test				
	Length of Test	Tubing Pressure	Casing Pressure		Choke Size	
	Actual Pred. During Test	OI:- 351a.	Water - Bble.		Gas - MCF	
		l				
	GAS WELL					
	Actual Prod. Test-NCF/D	Length of Test	BEIs. Condensate/MMCI		Gravity of Condensate	
	Testing Method (piter, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-	-in)	Choke Size	
ا ۲۱	CERTIFICATE OF COMPLIAN	CE	OIL C	ONSERVA	TION COMMISSION	4
			APPROVED	JUI 27	1984	19
		egulations of the Oil Conservation with and that the information given			. Seay	
	above is true and complete to the	best of my knowledge and belief.	BY	ii & Gas	Inspector	
	1 0.0 /		TITLE			
	Joseph J lan			a data attanta	ompliance with RULE ble for a newly drille	- or deepensy
	- (Signa	itwe)	well, this form must	be accompanies well in accord	ance with RULE 111	
	Engineer		All angligge of	this form mus	t be filled out comple	tely for ellow-
	(7'ii	(•)	able on new and re	completed wel		

____7-24-84_____(Dute)

well neme or	number, o	r transp	orter, or	other	VI for changes of owner, such change of condition.
Separate completed we	Forms C	-104 m	ust be	filed	for each pool in multiply

C-104 xedes Old C-104 and C-110 tive 1-1-65

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Lease No. 8-2287 ate

County

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Same Res'v. Diff. Res'v.

ACKS CEMENT

equal to or exceed top allow-

Condensate

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with RULE 1104.

newly drilled or deepened tabulation of the deviation h RULE 111.

d out completely for allow-

VI for changes of owner, such change of condition. for each pool in multiply
NO. OF COPIES RECEIVED			
DISTRIBUTION	NEW MEXICO OIL CO	ONSERVATION COMMISSION	Form C-104
SANTA FE		FOR ALLOWABLE	Supersedes Old C-104 and C-110
FILE		AND	Effective 1-1-65
U.S.G.S.	AUTHORIZATION TO TRA	NSPORT OIL AND NATURAL GA	s
LAND OFFICE			
OIL			
TRANSPORTER GAS			
OPERATOR			
PRORATION OFFICE			
Operator			
TOM L. INGRAM			
Address			
	Roswell, New Mexico 88	201	
Reason(s) for filing (Check proper box)		Other (Please explain)	
New Well	Change in Transporter of:		
Recompletion	OLI XX Dry Go	is 🚺	
Change in Ownership	Casinghead Gas Conder	nsate	
If change of ownership give name			
and address of previous owner			
DESCRIPTION OF WELL AND I	EASE Well No., Pool Name, Including F	Formation Kind of Lease	Lease No.
Lease Name		State Federal	or Fee State B-2287
State''L''	1 Vacuum-Abo	neel	
Location		1800	he West
Unit Letter C : 990	Feet From The North Li	ne and <u>1890</u> Feet From T	mewest
	17.0	36-E , NMEM, Lea	County
Line of Section 19 Tow	IT-S Range	36-E , NMFM, Lea	
DESIGNATION OF TRANSPORT	TER OF OIL AND NATURAL G	AS Address (Give address to which approv	ed copy of this form is to be sent)
Nute of Automized Transporter of Cit	XX or Condensate	Addition (other addition	
Atlantic Richfield Co	•	POB 1610 - Midland, Te Address (Give address to which approv	ed copy of this form is to be sent)
Name of Authorized Transporter of Cas	Singhead Gas or Dry Gas	Address forve datess to which approv	(a cop) of the f
		le Who	
in the second	Unit Sec. Twp. P.ge.	is gas actually connected? Whe	
if well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Pge.	Is gas actually connected? Whe No (vented)	" Waiting on contract
give location of tanks.	c 19 175 36E	No (vented)	
give location of tanks. If this production is commingled wit	c 19 175 36E	No (vented)	Waiting on contract
give location of tanks. If this production is commingled with V. COMPLETION DATA	c 19 17S 36E th that from any other lease or pool	No (vented)	
give location of tanks. If this production is commingled wit	c 19 17S 36E th that from any other lease or pool	No (vented)	Waiting on contract
give location of tanks. If this production is commingled with COMPLETION DATA Designate Type of Completion	c 19 17S 36E th that from any other lease or pool	No (vented)	Waiting on contract
give location of tanks. If this production is commingled with V. COMPLETION DATA	c 19 17S 36E th that from any other lease or pool on - (X)	No (vented)	Waiting on contract
give location of tanks. If this production is commingled wir V. COMPLETION DATA Designate Type of Completic Date Spudded	c 19 17S 36E th that from any other lease or pool on - (X) Oil Well Gas Well Date Compl. Ready to Prod.	No (vented)	Waiting on contract
give location of tanks. If this production is commingled with COMPLETION DATA Designate Type of Completion	c 19 17S 36E th that from any other lease or pool on - (X)	No (vented)	Waiting on contract
give location of tanks. If this production is commingled with V. COMPLETION DATA Designate Type of Completion Date Spudded Elevations (DF, RKB, RT, GR, etc.,	c 19 17S 36E th that from any other lease or pool on - (X) Oil Well Gas Well Date Compl. Ready to Prod.	No (vented)	Waiting on contract
give location of tanks. If this production is commingled wir V. COMPLETION DATA Designate Type of Completic Date Spudded	c 19 17S 36E th that from any other lease or pool on - (X) Oil Well Gas Well Date Compl. Ready to Prod.	No (vented)	Waiting on contract
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give location of tanks. If this production is commingled with COMPLETION DATA Designate Type of Completion Date Spudded Elevations (DF, RKB, RT, GR, etc.) Petforations HOLE SIZE	c 19 17S 36E th that from any other lease or pool on - (X) OII Well Gas Well Date Compl. Ready to Prod. Name of Producing Formation TUBING, CASING, A CASING & TUBING SIZE	No (vented)	Waiting on contract Plug Back Sume Restv. Plug Back Sume Restv. P.B. T.D. Image: Contract of the second
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give location of tanks. If this production is commingled with Designate Type of Completion Date Spudded Elevations (DF, RKB, RT, GR, etc.) Petforations HOLE SIZE HOLE SIZE Date First New Oil Run To Tanks Length of Test Actual Prod. During Test Actual Prod. Test-MCF/D	C 19 17S 36E th that from any other lease or pool Oil Well Gas Well Date Compl. Ready to Prod. Name of Producing Formation TUBING, CASING, A CASING & TUBING SIZE CASING & TUBING SIZE Date of Test Tubing Pressure Oil - Bbls.	No (vented)	Waiting on contract
give location of tanks. If this production is commingled with COMPLETION DATA Designate Type of Completion Date Spudded Elevations (DF, RKB, RT, GR, etc., Perforations HOLE SIZE HOLE SIZE Length of Test Actual Prod. During Test GAS WELL	C 19 17S 36E th that from any other lease or pool on - (X) OII Well Gas Well Date Compl. Ready to Prod. Name of Producing Formation TUBING, CASING, A CASING & TUBING SIZE COR ALLOWABLE (Test must be able for this Date of Test Tubing Preseure Oil-Bble.	No (vented) No (vented) No (vented) New Well Workover Deepen Total Depth Top Oil/Gas Pay ND CEMENTING RECORD DEPTH SET	Waiting on contract
give location of tanks. If this production is commingled with Designate Type of Completion Date Spudded Elevations (DF, RKB, RT, GR, etc.) Petforations HOLE SIZE HOLE SIZE Date First New Oil Run To Tanks Length of Test Actual Prod. During Test Actual Prod. Test-MCF/D Testing Method (pitot, back pr.)	C 19 17S 36E th that from any other lease or pool on - (X) OII Well Gas Well Date Compl. Ready to Prod. Name of Producing Formation TUBING, CASING, A CASING & TUBING SIZE COR ALLOWABLE (Test must be able for this Date of Test Tubing Pressure Oil-Bble. Length of Test Tubing Pressure (Shut-in)	No (vented) No (vented) No (vented) New Well Workover Deepen Total Depth Top Oil/Gas Pay ND CEMENTING RECORD DEPTH SET	Waiting on contract
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I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

 (Signature)	
Clerk	
(Title)	
5-24-71	

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i	OIL CONSERVATOR COMMISSION
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	() () () () () () () () () () () () () (
	APPROVED
1	A A MARY
i	
	UPERVISOR DISTRICT .
	TITLE
	This form is to be filed in compliance with RULE 1104.

This form is to be filed in compliance with RULE If this is a request for allowable for a newly drilled or despend well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allow-able on new and recompleted wells.

able on new and recompleted wells. Fill out only Sections I. II. III, and VI for changes of owner, well name or number, or transporter, or other such change of condition. well name or number C-104 must be filed for each pool in multiply

SAN FIL U.S. LAN TRA	OF COPIES RECEIVED DISTRIBUTION ITA FE E	REQUEST FO	ISERVATION COMMISSION OR ALLOWABLE AND SPORT OIL AND NATURAL GA	Form C-104 Supersedes Old C-104 and C-110 Elfective 1-1-65 S
I. Oper	alor			
Addr				
Reas	P. O. Box 1757	7 - Roswell, New Mexico	0ther (Please explain)	
New		Change in Transporter of: Oil Dry Gas		
	ompletion	Casinghead Gas Condense	nte	
	ange of ownership give name address of previous owner			
IL DES	CRIPTION OF WELL AND L	EASF.		
	e Name	Well No. Pool Name, Including For	State Federal (Dr Fee State B-2287
Loca	State "L"	1 Vacuum-Abo Ree		
0	Jnit Letter C;990	Feet From The <u>North</u> Line	and 1890 Feet From Th	•West
L	ine of Section 19 Town	nship 17S Range	36Е , ммрм, Le	County
II. DES	IGNATION OF TRANSPORT	ER OF OIL AND NATURAL GAS		······································
Nan	e of Authorized Transporter of OII	or Condensate	Address (Groe address to which approve	
Nan	The Permian Corporat	on nghead Gas 🗶 or Dry Gas 🗍	1509 West Wall, Midlan Address (Give address to which approve	id copy of this form is to be sent)
11 w	ell produces oil or liquids,	out for the first	Is gas actually connected? When	
give	location of tanks.	C 19 175 36E		Waiting on Contract
	is production is commingled with MPLETION DATA	that from any other lease or pool, g	New Well Workover Deepen	Plug Back Same Res'v. Diff. Res'v.
	Designate Type of Completion			
Dat	e Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
Ele	vations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
Per	forations			Depth Casing Shoe
-		TUBING, CASING, AND	CEMENTING RECORD	
	HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
-				
	ST DATA AND REQUEST FO	RALLOWABLE (Test must be af	ter recovery of total volume of load oil a	and must be equal to or exceed top allow-
011	I, WEI.L to First New Oil Run To Tanks	able for this dep	pth or be for full 24 hours) Producing Method (Flow, pump, gas life	
Da	te First New Oli Hun 16 Tunks			Choke Size
L.	ingth of Test	Tubing Pressure	Casing Pressure	
Ac	tual Prod. During Test	Oil-Bble.	Water - Bbls.	Gas-MCF
L			L	
	AS WELL		Phile Condenants ADICE	Gravity of Condensate
	ctual Prod. Test-MCF/D	Length of Test	Bble. Condensate/MMCF	
T	esting Method (pitot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size
VI. CE	ERTIFICATE OF COMPLIAN	CE		TION COMMISSION
			APPROVED MAY	2 13/1
		regulations of the Oil Conservation with and that the information given a best of my knowledge and belief.	BY	Amer
ab	ove is true and complete (o the		///	DISTRC7
		6. 6	This form is to be filed in t	compliance with RULE 1104.
	.Eliat	setts plan	If this is a request for allow	vable for a newly drilled or deepened
_	Secreta	atwe)	tests taken on the well in account	at be filled out completely for allow-
		(tle)	able on new and recompleted w	The set 10 for changes of owner.
	4-6-71	ate)		I. III, and VI for changes of owner, ter, or other such change of condition.
	15		Separate Forms C-104 mus	t be filed for each pool in multiply

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FILE NEW MEXICO OIL CONSERVATION COMMISSION FILE WELL COMPLETION OR RECOMPLETION REPORT AND LOG U.S.G.S. State II LAND OFFICE B OPERATOR 7. Unit Agree	Type of Lease
FILE NEW MEXICO OIL CONSERVATION COMMISSION U.S.G.S. WELL COMPLETION OR RECOMPLETION REPORT AND LOG LAND OFFICE 5. State OIL OPERATOR 1	Fee
FILE WELL COMPLETION OR RECOMPLETION REPORT AND LOG State [A] U.S.G.S. State [A] State [A] LAND OFFICE State [A] B OPERATOR [] TYPE OF WELL	
U.S.G.S. LAND OFFICE OPERATOR 11. TYPE OF WELL 7. Unit Agree	& Gas Lease No.
OPERATOR 17. TYPE OF WELL 7. Unit Agree	
17. TYPE OF WELL 7. Unit Agree	3-2287
	<u> </u>
	ement Name
WELL WELL DRY OTHER 8. Farm or L	_ease Name
	ւորո
WELL OVER DEEPEN BACK RESVR. OTHER 9. Well No.	
TOM L. INGRAM	
	nd Pool, or Wildcat m-Abo Reef
4. Location of Well	
C 990 North 1890	
CNIT LETTER FEET FROM THE LINE AND FEET FROM AND	
No. 175 265	
THE West LINE OF SEC. 19 TWP. 175 RGE. 36E NMPM	
15. Date Spudded 16. Date T.D. Reached 17. Date Compl. (Ready to Prod.) 18. Elevations (DF, RKB, RT, GR, etc.) 19.	Elev. Cashinghead
2-26-71 3-21-71 3-25-71 3891' GR, 3901 DF, 3902 KB	6 . •7
Li, Total Depth 21, Plug Back T.D. 22, If Multiple Compl., How 23, Intervals , Rotary Tools Drilled By , etc	Cable Tools
8945' 8902' Many Drilled By 0' to TD	
24. Producting Interval(s), of this completion Top, Bottom, Name 2	25. Was Directional Surve
	Made
8780 to 8893 Abo Reef	Totco only
26. Type Electric and Other Logs Run 27. We	as Well Cored
Sidewall Neutron, Laterolog, Microlaterolog	Yes
23. CASING RECORD (Report all strings set in well)	
CASING SIZE WEIGHT LB./FT. DEPTH SET HOLE SIZE COMENTING RECORD	AMOUNT PULLED
13-3/8 48 335' 17" 300 sx	Circulated
8-5/8 24-32 3300' 11'' 200 sx	0
5-1/2 14-15 ¹ / ₂ -17 8945' 7-7/8'' 300 sx	0
23, LINER RECORD 30, TUBING RECO	1
SIZE TOP BOTTOM SACKS CEMENT SCREEN SIZE DEPTH SET	PACKER SET
2-3/8 8733	8630
31. Perforation Record (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SOL	JEEZE, ETC.
	D MATERIAL USED
3780, 84, 87, 34, 3811, 30, 32, 49, 56, 62, 8780-8893 1000 gal	
70, 84, 87, 93.	
33. PRODUCTION	
Eate First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status	s (Prod. or Shut-in)
3-25-71 Flowing Product	ing
	Gas - Oil Ratio
Eate of Test Hours Tested Choke Size Prod'n. For Oil - Bbl. Gas - MCF Water - Bbl.	903
Eate of Test Hours Tested Choke Size Prod'n. For Oil - Bbl. Gas - MCF Water - Bbl.	Gravity - API (Corr.)
Eate of Test Hours Tested Choke Size Prod'n. For Oil – Bbl. Gas – MCF Water – Bbl. 3-25-71 24 20/64 Test Period 310 280 0 Flow Tubing Press. Casing Pressure Calculated 24- Oil – Bbl. Gas – MCF Water – Bbl. Oil – Bbl.	38
Eate of Test Hours Tested Choke Size Prod'n. For Oil – Bbl. Gas – MCF Water – Bbl. 3-25-71 24 20/64 Test Period 310 280 0 Flow Tubing Press. Casing Pressure Calculated 24- Oil – Bbl. Gas – MCF Water – Bbl. Oil	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	y
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
Late of Test 3-25-71Hours Tested 24Choke Size 20/64Prod'n. For Test PeriodOil - Bbl. 310Gas - MCFWater - Bbl. 0Flow Tubing Press. 225Casing Pressure 0 (Pkr)Calculated 24- Hour RateOil - Bbl. 310Gas - MCFWater - Bbl. 0Oil - Bbl. 034. Disposition of Gas (Sold, used for fuel, vented, etc.) VentedVentedTest Witnessed Br A. C. Bonn	
Late of Test Hours Tested Choke Size Prod'n. For Oil – Bbl. Gas – MCF Water – Bbl. O 3-25-71 24 20/64 Test Period 310 280 0 Flow Tubing Press. Casing Pressure Calculated 24- Hour Rate Oil – Bbl. Gas – MCF Water – Bbl. Oil 225 0 (Pkr) Calculated 24- Hour Rate 310 280 0 0 34. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented Test Witnessed B A. C. Bonn 35. List of Attachments Calculated 24- A. C. Bonn Calculated 24- A. C. B	
Late of Test Hours Tested Choke Size Prod'n. For Oil – Bbl. Gas – MCF Water – Bbl. O 3-25-71 24 20/64 Test Period 310 280 0 Flow Tubing Press. Casing Pressure Calculated 24- Hour Rate Oil – Bbl. Gas – MCF Water – Bbl. Oil 225 0 (Pkr) Calculated 24- Hour Rate 310 280 0 0 34. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented Test Witnessed B A. C. Bonn 35. List of Attachments Cores, DSTs, Logs DSTs, Logs Cores Cores Cores	nell
Date of Test Hours Tested Choke Size Prod'n. For Oil – Bbl. Gas – MCF Water – Bbl. O 3-25-71 24 20/64 Test Period 310 280 0 Flow Tubing Press. Casing Pressure Calculated 24- Oil – Bbl. Gas – MCF Water – Bbl. Oil 225 0 (Pkr) Hour Rate 310 280 0 Oil 34. Disposition of Gas (Sold, used for fuel, vented, etc.) Yented Test Witnessed B A. C. Bonn 35. List of Attachments Cores, DSTs, Logs Sides of this form is true and complete to the best of my knowledge and belief.	nell
Ente of Test Hours Tested Choke Size Prod'n. For Oil – Bbl. Gas – MCF Water – Bbl. O 3-25-71 24 20/64 Test Period 310 280 0 Flow Tubing Press. Casing Pressure Calculated 24- Oil – Bbl. Gas – MCF Water – Bbl. Oil 225 0 (Pkr) Hour Rate 310 280 0 Oil 34. Disposition of Gas (Sold, used for fuel, vented, etc.) Yented Yented Test Witnessed B A. C. Bonn 35. List of Attachments Cores, DSTs, Logs State of this form is true and complete to the best of my knowledge and belief.	nell
Ente of Test Hours Tested Choke Size Prod'n. For Oil – Bbl. Gas – MCF Water – Bbl. O 3-25-71 24 20/64 Test Period 310 280 0 Flow Tubing Press. Casing Pressure Calculated 24- Oil – Bbl. Gas – MCF Water – Bbl. Oil 225 0 (Pkr) Calculated 24- Oil – Bbl. Gas – MCF Water – Bbl. Oil 34. Disposition of Gas (Sold, used for fuel, vented, etc.) Test Witnessed B A. C. Bonn Vented 35. List of Attachments Cores, DSTs, Logs 35. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.	nell

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Fule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico Northwestern New Mexico 1804 _ T. Canyon _____ T. Ojo Alamo ____ _____ T. Penn. "B"____ Anhy____ Т. T. Strawn _____ T. Kirtland-Fruitland _____ T. Penn. "C" ____ Salt ____ Т. Atoka _____ T. Pictured Cliffs _____ T. Penn. "D" _____ B. Salt ____ _____ T. 3052 т. Miss ____ T. Cliff House ____ T. Leadville ____ Τ. Yates____ T. Devonian _____ T. Menefec _____ T. Madison _____ 7 Rivers ____ т. _____T. Silurian _____T. Point Lookout _____T. Elbert ___ Τ. Oueen _____T. Mancos _____T. McCracken ___ Т. Grayburg_ _____T. Montoya _____ 4000 ____T. Simpson ______T. Gallup ______T. Ignacio Qtzte ____ San Andres Т 3253 T. McKee ______ Base Greenhorn _____ T. Granite _____ т. Glorieta_ _____ T. Ellenburger _____ T. Dakota _____ T. __ T. Paddock ____ ______ T. Gr. Wash ______ T. Morrison ______ T. ____ Τ. Blinebry ____ Τ. Tubb ____ T. Delaware Sand ______ T. Entrada _____ T. Т. Drinkard ____ 8770 T. Bone Springs _____ T. Wingste _____ T. ____ Abo___ Т. Τ. Wolfcamp____ _____T. _____T. _____T. _____T. T. Penn. T Cisco (Bough C)_____ T. ____ T. ____ T. Penn. "A"_____ T.

FORMATION RECORD (Attach additional sheets if necessary)

From	То	Thickness in Feet	Formation	From	То	Thickness in Feet	Formation
0	180	130	Surface andss & caliche				
130	1804	1.24	Red beds & sand				
1804	3052	1243	Anhydrite & salt				
3 052	4000	1543	Sand, shale, anhydrite,				
4000	6253	1053	& dolomite Dolomite & anhydrite				
253	8770	2517	Sand, dolomite, & shale				
8/70	8945	175	Dolomite & shale				
8770	0 545	1/3	boromite e share				
							ΞD
					1		
							Mail: 2 01971
	1						STERN CARAGE
							A A LOOK ATION COMM. HOBLS, N. W.

360'

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is and /ater.

CORE DESCRIPTIONS TOM L. INGRAM #1 State "L"

- Core #1 8695' 8751'. Recovered 56' being:
 - 19' Buff Medium crystalline dolomite with anhydrite filling vugs.
 - 8' Buff fine to medium crystalline dolomite with scattered pinpoint porosity and slight bleeding water
 - l' Green shale
 - 9' Green shaley dolomite
 - 11' Buff fine to cedium crystalline dolomite with scattered pin point porosity
 - l' Green shale
 - 1' Green shaley dolomite
- Core #2 8751' 8802'. Recovered 51' being:
 - 3' Light gray fine to medium crystalline dolomite
 - 1' Green shaley dolomite
 - 15' White to buff medium crystalline dolomite with anhydritic inclusions
 - 6! Buff medium to coarse crystalline dolomite with pin point porosity and stain
 - 9' with good porosity and stain

4' Buff fine crystalline dolomite

- 7' with pin point porosity fractures and stain
- 3' Dense dolomite
- I' Coarse crystalline dolomite with good pin point porosity and stain
- 1' Anhydrite
- 3' Shaley dolomite
- I' Coarse crystalline dolomite with good pin point porosity and stain
- 1' Shaley dolomite
- Core #3 8802' 8859' Recovered 56' being:
 - 1' Green shaley dolomite
 - l' Anhydrite
 - 2' Buff medium crystalline dolomite with porosity and good stain
 - 1' Buff fine crystalline dolomite
 - 1' Buff fine crystalline dolomite with fractures and good stain
 - 1' Buff fine crystalline dolomite
 - 1' Buff crystalline dolomite with porosity and good stain
 - 5' Buff fine to medium crystalline dolomite
 - 4' Buff fine to medium crystalline dolomite with slight porosity and fractures and good stain
 - 1' Anhydrite
 - 2' Buff medium to coarse crystalline dolomite with slight fractures and good stain
 - 5' Buff medium to coarse crystalline dolomite with good porosity and stain
 - 6' Fine to medium crystalline dolomite
 - 2' Buff fine to medium crystalline dolomite/slightly anhydritic
 - 12' Buff medium to coarse crystalline dolomite with good porosity and stain
 - 1' Buff fine to medium crystalline dolomite
 - 2' Buff medium to coarse crystalline dolomite with good porosity and stain
 - 1' Fine to medium crystalline dolomite
 - 4' Anhydrite and anhydritic dolomite
 - 1' Buff medium crystalline dolomite with slight fractures and good stain
 - 1' Green shaley dolomite
 - 1' Anhydrite

Core #4 8859' - 8900'. Recovered 43' being:

- 10' Buff to light gray fine to medium crystalline dolomite
- 3' Buff medium to coarse crystalline dolomite with good porosity and stain
- 2' Buff medium crystalline dolomite
- l' Buff anhydritic dolomite
- 8' Buff medium to coarse crystalline dolomite with good porosity and stain. Dull fluorescence in last foot
- 2' Buff fine to medium crystalline dolomite
- 6' White medium to coarse crystalline dolomite with good porosity and dull fluorescence last three feet.
- 2' Buff medium to coarse crystalline dolomite
- l' Green shaley dolomite
- 1' Buff medium crystalline dolomite with good porosity and fluorescence
- 1' Anhydrite
- 1 Buff medium to coarse crystalline dolomite with good porosity and dull fluorescence
- 1' Anhydritic dolomite
- 1' Medium to coarse crystalline dolomite with good porosity and stain
- 3' Buff medium to coarse crystalline dolomite with good porosity and dull fluorescnece

Core #5 8902' - 8940'. Recovered 38' being:

- 1' Buff fine crystalline dolomite
- 8' Buff medium to coarse crystalline dolomite with good porosity and stain
- 1' light gray fine crystalline dolomite
- l' light gray shaley dolomite
- 1' light gray fine crystalline dolomite
- 2' Buff medium crystalline dolomite with good porosity and dull fluorescence
- 2' Shaley dolomite
- 3' Gray fine to medium crystalline dolomite
- l' Green shaley dolomite
- l' Green shale
- l' Green shaley dolomite
- 3' Buff fine to medium crystalline dolomite
- 1' Buff medium crystalline dolomite with good vuggy porosity and some stain
- 3' Buff medium crystalline dolomite with good vuggy porosity and dull fluorescence
- 2' Buff medium crystalline dolomite
- 2' Buff medium crystalline dolomite with good viggy porosity and trace of stain
- l' Green shaley dolomite
- 3' Buff medium to coarse crystalline dolomite with good viggy porosity and dull fluorescence
- I' Buff medium to coarse crystalline dolomite with good porosity and dull fluorescence.

1.	NO. OF COPIES RECEIVED DISTRIBUTION SANTA FE FILE U.S.G.S. LAND OFFICE I RANSPORTER OPERATOR PRORATION OFFICE OPERATOR OPERATOR OPERATOR		NSERVATION COMMISSION OR ALLOWABLE AND ISPORT OIL AND NATU	Supersedes Of Effective 1-1-	ld C-104 and C-110 65
	TOM L. INGRA	AM			
	Address P. O. Box 1 Reason(s) for filing (Check proper box) New Wall XX Recompletion Change in Ownership	757 - Roswell, New Mexico Change in Transporter of: Oil Dry Gas Casinghead Gas Condens	Other (Please expla	n) <u>5125111 -</u>	E S
	If change of ownership give name and address of previous owner	g – Kit eks 3038 P	LACED IN THE POOL YOU DO NOT CONCUR		
		1.12.13.12.1			
	DESCRIPTION OF WELL AND L	Well No. Pool Name, Including For		of Lease	Lease No.
	State "L"	1 Vacuum- Abo R	eef (1997 state	Federal or Fee State	<u></u>
	Unit Letter C ; 990	Feet From The North Line	and 1890 Fee	Trom TheWest	
		1		Lea	County
	Line of Section 19 Tow	nship 175 Range			
aa.	DESIGNATION OF TRANSPORT		Address (Give address to white	h approved copy of this form is	to be sent)
	Atlantic Richfield Com	pany Trucks	P. 0. Box 1610.	Midland, Texas 79 th approved copy of this form is	701
	Name of Authorized Transporter of Cas	Inghead Gas 🍋 or Dry Gas 🗍			to be sent;
	Skelly Oil Company P. O. Box 1650, Tulsa, Oklahoma If well produces oil or liquide, Unit Sec. Twp. Pge. Is gas actually connected? When				
	give location of tanks.	C 19 175 36E	No	30 days	
	If this production is commingled with	h that from any other lease or pool, g	give commingling order num	er:	
	Designate Type of Completio	Oil Well Gas Well	New Well Workover De	epen Plug Back Same R	es'v. Diff. Res'v.
	Designate Type of Completio	Date Compl. Ready to Prod.	X Total Depth	P.B.T.D.	
	2-26-71	3-25-71	8945'	8902	
		Name of Producing Formation	Top Cil/Gas Pay 8780	Tubing Depth 8730 ¹	
	3891 GR, 3901 DF, 3902 K Perforations			Depth Casing Shoe	
	8780, 84, 87, 94, 88	11, 30, 32, 49, 56, 62,	76, 84, 87, 93.	8945 '	
	HOLE SIZE	TUBING, CASING, AND CASING & TUBING SIZE	DEPTH SET	SACKS CI	EMENT
	17"	13-3/8	335'		x Circ.
	11"	8-5/8	3300	200 s:	
	7-7/8 "	5-1/2	8945	300_s;	×
v.	TEST DATA AND REQUEST FO	OR ALLOWABLE (Test must be af	ter recovery of total volume of	load oil and must be equal to o	r exceed top allow-
	OIL WELL Dute First New Oil Run To Tanks	able for this dep Date of Test	pth or be for full 24 hours) Producing Method (Flow, pur	p, gas lift, etc.)	
	3-25-71	3-25-71	Flowing		
	Length of Teet	Tubing Pressure	Casing Pressure	Choke Size	
	24 hours	225	0 (Packer)		
	Actual Prod. During Test	он-вы. 310	0	280	
	GAS WELL	Length of Test	Bbls. Condensate/MMCF	Gravity of Condense	it•
	Actual Prod. Test-MCF/D	Length of 1001			
	Testing Method (pitot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size	
•••				SERVATION COMMISSI	оN
VI	CERTIFICATE OF COMPLIAN	CE	NAD A	10:2	
	I hereby certify that the rules and	regulations of the Oil Conservation	APPROVED		_, 19
		with and that the information given best of my knowledge and belief.	BY	YACTA	
				OR DISTRICT	
	1 11 -	7		filed in compliance with RU	LE 1104.
	Jon J.	regim		a strength for a newly de	illed or deepened
	(Sigo	atwe)		accompanied by a tabulation in accordance with RULE	
	Operator	r	All sections of this	form must be filled out com	pletely for allow-

(Title)

(Date)

3-26-71

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. . ----

All sections of this form must be filled out completely for allow-able on new and recompleted wells.

able on new and recompleted wells. Fill out only Sections I, II. III, and VI for changes of owner, well name or number, or transporter, or other such change of condition. Separate Forms C-104 must be filed for each pool in multiply

WELL NAME AND NUMBER State L #1

LOCATION NE NW Section 19, T17S, R36E, Lea County, New Mexico (New Mexico give U.S.T&R: TEXAS GIVE S, BLK, SURV. & TWP)

OPERATOR Tom L. Ingram

DRILLING CONTRACTOR Moran Oil Producing & Drilling Corp.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

Degrees	0 Depth	Degrees	@ Depth	Degrees @ Depth	Degrees @ Depth
1/4	125	1 1/2	5363		
1/2	335	1 3/4	5925		
1/2	740	1 3/4	6400		
1/2	1150	2	6900		
3/4	1575	2	7400		
3/4	1720	2 1/4	7900		
3/4	2200	2 1/4	8340	·····	
3/4	2695	1 3/4	8695		
3/4	3100	2 1/4	8940		
1	3300				
1/4	3790				
3/4	4250				
3/4	4600				

Drilling Contractor MORAN OIL PRODUCING & DRILLING CORP.

By R. M. Moran, President

44

Subscribed and sworn to before me this 26th day of March , 1971

urmer Notary Wiblic Lea County, New Mexico

My Commission expires: April 1, 1974

DISTRIBUTION	NEW MEXICO OIL CONSERVAT	FION COMMISSION	Form C-103 Supersedes Old C-102 and C-103 Effective 1-1-65
AND OFFICE			Sa. Indicate Type of Lease State X Free
			B-2237
(DO NOT USE THIS FOR	SUNDRY NOTICES AND REPORTS ON WELL M FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO , APPLICATION FOR PERMIT - " (FORM C-101) FOR SUCH PROPO	S A DIFFERENT RESERVOIR. SALS.)	
1. OIL XX GAS WELL XX WELL 2. Name of Operator	0THER-		7. Unit Agreement Name
Tom L. In	gram		8. Form or Lease Name State "L"
3. Address of Operator			9. Well No.
P. O. Box 4. Location of Well	1757 - Roswell, New Mexico 88201		1 16. Field and Pool, or Wildow
UNIT LETTER C	990 FLEY FROM THE North	1890	Vacuum-Abo Reef
THE West	NC. SLOTION 19 TOWNSHIP 175	502	
	15. Elevation (Show whether DF, RT 3902 'KB	, GR, etc.)	12. Dounty Lea
	Check Appropriate Box To Indicate Nature		ther Data
PERFORM REMEDIAL WORK		DIAL WORK	ALTERING CASING
TEMPORARILY ABANDON PULL OR ALTER CASING		ENCE DRILLING OPNS.	PLUG AND ABANDONWENT
		HER	
OTHER			
17. Describe Proposed or Cor work; SEE RULE 1103.	nplotod Operations (Clearly state all pertinent details, and	l give pertinent dates, includin	g estimated date of starting any proposed
5 7 1 3 C P T	an $5\frac{1}{2}$ '' casing to 8945'. TD 8945'. 9 joints (1909.57') 17# K-55 LT&C 3 joints (2334.26') 15 $\frac{1}{2}$ # K-55 ST&C 18 joints (3526.64') 14# K-55 ST&C 6 joints (1182.96') 15 $\frac{1}{2}$ # K-55 ST&C emented with 300 sacks Class C Infe er sack. op of cement 7600'. WOC 48 hours. or 30 minutes. Held OK.	erno pozmix + 3/4 d	
18. I hereby certify that the in eights		rator	
APPROVED BY	- THEAN	ISOR DISTINCT	MAP. 26 1971
IJ.			

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NO. OF COPIES RECEIVED		Form C-103		
DISTRIBUTION		Supersedes Ola		
SANTA FE	-102 and C-10			
FILE	NEW MEXICO OIL CONSERVATION CUMMISSION			
U.S.G.S.		1. in incate		
LAND OFFICE		THE XX		
OPERATOR		1. Linte Oll & Gub Lettre Mr.		
· 1 1		B-2257		
SUND	RY NOTICES AND REPORTS ON WELLS			
100 NOT USE THIS FORM FOR PLUSE "APPLICA	ATT INCTICLS AIND REFORING BLUG BACK TO A DIFFERENT RESERVOIR. Agodsals to drill or to deepen or plug back to a different reservoir. Ation for permit" (form C-101) for such proposals.)			
1.		C. M. ARCOTAL SATE		
	OTHER-	:		
2. Name of Operator		. i'din or Leas		
TOM L. INGRAM	State "L'			
3. Address of Operator		9. Xe :0.		
P. 0. Box 1757 -	- Roswell, New Mexico 88201	1		
4. Location of Well		15. Field and Fool, or but		
UNIT LETTER C	990 FEET FROM THE NOTTH LINE AND 1890 FEET F	Vacuum-Abo Reef		
THE WOSL LINE, SECT	10N 19 TOWNSHIP 175 RANGE 36E			
•.				
	15. Elevation (Show whether DF, RT, GR, etc.)	12. Leanty		
	3902' КВ	Lea		
16. Check	Appropriate Box To Indicate Nature of Notice, Report or	Other Data		
		ENT REPORT OF:		
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING		
	COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT		
TEMPORARILY ABANDON				
PULL OR ALTER CABING	CHANGE PLANS CASING TEST AND CEMENT JOB XX			
	CHANGE PLANS CASING TEST AND CEMENT JQB			

3-2-71 Ran 905.83' 8-5/8" 32# K-55 casing and 2418.67' 8-5/8" 24# K-55 casing and set @ 3300'. Cemented with 200 sx of Class H with 2% CaCl. Plug down @ 14:30.

3-3-71 After WOC 24 hours, tested casing and shoe to 1000 psi for 30 minutes. Held OK.

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

BIGHED Som & Jugan	TITLE	Operator	 JATE 3-3-7	1
CONDITION OF APPROVAL, IF ANYI	TITLE	(Ban) : ಗೆಡೆ	 DATE	5 1973

NO. OF COPIES RECEIVED DISTRIBUTION SANTA FE FILE U.S.G.S. LAND OFFICE	NEW MEXICO OIL CONSERVATION	N COMMISSION	Form C-103 Supersedes Old C-102 and C-103 Effective 1-1-65 Sa. Indicate Type of Lease State XX Fee
OPERATOR			5. State Oll & Gas Lease No.
			B-2287
DO NOT USE THIS FORM FOR PRO	Y NOTICES AND REPORTS ON WELLS	FFERENT RESERVOIR,	
1.	IN FOR PERMIT _** (FORM C-101) FOR SUCH PROPOSAL		7. Unit Agreement Name
	OT HER-		
2. Name of Operator			8. Farm or Lease Name
TOM L. INGRAM			State "L"
3. Address of Operator			9. Well No.
P. 0, Box 1757 - 4. Location of Well	Roswell, New Mexico 88201		10. Field and Pool, or Wildcat
	North	1800	Vacuum-Abo Boof
UNIT LETTER U	90 PEET PROM THE NORTH LINE AND	D 1050 PEET PRO	
THEWest LINE, SECTIO	19 TOWNSHIP 175	36E NMP	- (()))))))))))))))))))))))))))))))))))
	15. Elevation (Show whether DF, RT, G	P. etc. 1	
	3902 ' KB	(, esc.)	Lea
18. Check		Nation Barren as O	
NOTICE OF IN	ppropriate Box To Indicate Nature of TENTION TO:	•	TREPORT OF:
			·
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL	WORK	ALTERING CASING
TEMPORARILY ABANDON		E DRILLING OPNS. X	PLUS AND ABANDONMENT
PULL OR ALTER CASING		ST AND CEMENT JOB	-
OTHER	CTHER.	······	L
17. Describe Proposed or Completed Ope work) SEE RULE 1905.	erations (Clearly state all pertinent details, and give	ve pertinent dates, includin	ng estimated date of starting any proposed
2-26-71 Commenced dri	11ing @ 10:30 a.m.		
2-27-71 Set 13-3/8" c Cement Circul	asing (48#) @ 335' and cemente ated.	d with 300 sx of	cement.
2-28-71 Tested casing	and shoe to 500 psi for 30 mi	nutes. Held OK.	
	•		
	·		
18. I hereby certify that the information	above is true and complete to the best of my knowl	edge and belief.	
1 42	·····		
signers Jon A par	Tirle Operat	or	DATE 3-1-71
1.00		SHC TOUR	MAR 5 19
APPROVED BY	apply TITLE	C43 [MaC 1	DATE DATE
CONDITIONS OF APPROVAL, IF ANYI			
	-		
'			

NO. OF COPIES RECEIVED					
DISTRIBUTION	NEW MEXICO OIL CONS	ERVATION COMMISSI		orm o ror	
SANTA FE			F	levised 1-1-65	
FILE				5A. Indicate Typ	
U.S.G.S.				STATE XX	FEE
LAND OFFICE				5. State Oil & Go	is Lease No.
OPERATOR			L	B-22	87
APPLICATION FOR PE	RMIT TO DRILL, DEEPEN	, OR PLUG BACK			
a. Type of Work					nt Name
DRILL X		DI U	З ВАСК 🔲 🖣		
b. Type of Well	DEEPEN L_	FLU		8. Farm or Lease	e Name
	ER	SINGLE X M	ZONE	State	որո
2. Name of Operator 9. Well No.					
TOM L. INGRAM				1	
3. Address of Operator				10. Field and Pa	ool, or Wildcat
P. 0. Box 1757	- Roswell, New Mexico	88201		Vacuum	-Abo Reef
	LOCATED 990		th LINE		
AND 1890 FEET FROM THE WE	st Line of sec. 19	TWP. 175 RGE.	36E NMPM		
				12. County	
				Lea	())))))))))))))))))))))))))))))))))))
		19. Proposed Depth	19A. Formation	20.	Rotary or C.T.
		9000'	Abo Re	eef	Rotary
21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor		22. Approx. Do	te Work will start
3891.0 GR	Statewide	Moran		2-28-	71
23.					
	PROPOSED CASING A	ND CEMENT PROGRAM			

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17"	13-3/8	48	325	250	Circulate
11"	8-5/8	24-32	3250	200	
7-7/8"	5-1/2	152-17	8900	700	

Drill to 9000', test, log, and if production indicated, set production string, perforate, stimulate and complete.

Blowout preventer will be used.

APPROVAL VALID FOR 90 DAYS UNLESS DIGILING COMMENCED,

May 23, 1971

24 HOURS PRIOR TO RUNNING

IN ABOVE	SPACE DESCRIBE PROPOSED	PROGRAM: IF PROPOSA	IS TO DEEPEN OR	PLUG BACK, GIVE D	ATA ON PRESENT P	RODUCTIVE ZONE AND	D PROPOSED NEW PR	RODUC-
TIVE ZONE.	GIVE BLOWOUT PREVENTER PROGRA	AM, IF ANY.						

I hereby certify that the information above is true and complete to Signed	0	Date2-23-71
(This pace () State Use) APPROVED BY	1.5 F 29i3;	DATE FEB 24 141

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NEW N CO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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		All distances must be fr	on the outer b	oundaries of	the Section.	*·····································
Operator			Lease			Well Nc.
TOM L.	INGRAM		STA	TE "L"		1
Unit Letter	Section	Township	Range		County	
С	19	17 South	36	EAST	LEA	
Actual Footage Loc			L			
990		ORTH line and	1890	fee	t from the WEST	line
	feet from the N Producing For		Pool			Dedicated Acreage;
Ground Level Elev.		REEF		ACUUM- A	BO REEF	40
3891						Actes
	 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working 					
interest an	nd royalty).					
 If more the dated by c 	an one lease of d communitization, u	ifferent ownership is d initization, force-poolin	ledicated to ng. etc?	the well,	have the interests of	all owners been consoli-
Yes Yes		nswer is "yes," type of				
this form i	f necessary.)	······				ated. (Use reverse side of
No allowal	ble will be assign	ed to the well until all	interests h	ave been o	consolidated (by com	munitization, unitization,
forced-poo	ling, or otherwise)	or until a non-standard	l unit, elim	inating suc	h interests, has been	approved by the Commis-
sion.				0		
8100.						
	2111NI	77777	1			CERTIFICATION
		2	!			
	2 -	1	I		1 / handa	and the table information and
	066	1	1			certify that the information con-
	r, si		1			erein is true and complete to the
	6	2	1		best of	ly knowledge and belief. /
		2	i			() Dava /
18	90'0	2			1/1ac	allorn
	4		1		Name	
	¥12122					ALCORN
	1		1		Pesition	
	1		i		Gro	LOCIET
						LOGIST
					Corr.p.an y	
	i				To	M L. INGRAM, OPERATOR
	1				Date	
	1				. FE	BRUARY 24, 1971
			† ·			
					1 hereby	certify that the well location
	1					this plat was plotted from field
	l.				1	
	1		1.1.14	RE		actual surveys made by me or
						supervision, and that the same
		1/3	STATS	0,000	is true	and correct to the best of my
	i	13		- 194 194	knowledg	e and belief.
		le i		13		
	+		T 22.9	5 12		
	I	102		, 19	//	
	I I		2	. C/ 7/	Date Surve	
	1		X 11	1/1	2-2	4-1971
	1		PHN W.	WES	Registered	Frefessional Engineer
	i				and, or Lan	d Surveyor
						R IN IST
	l			<u> </u>	errificate	m W. West
						^{NO.} 676
0 330 000	90 1320 1650 19	0 2310 2640 2000	1 500	1000	800	

		-	freed and	- 1-1
And the second sec	e References			DP
COUNTY LEA FIELD	Vacuum	ST	TE NM 30-0	325-23 1
OPR INCOM L.			M.	AP
1 State "1"				
Sec 19. T-17-S. R-	36 -F		co-c	DRD
99C' FNL, 1890' FW	L of Sec			20000
Spd 2-26-71		CLASS		EL 38982
ćmp 3-25-71	FORMATION	DATUM	FORMATION	DATUM
csgasx-tubing 13 3/8" ∺t 335' w/300 sx 8 5/8" %t 3300' w/200 sx 5 1/2" %t 8945' w/300 sx				
LOGS EL GR RA IND HC A	TD 8945'; H	BD 8902'		
1P (Abc) Perfs 8780-8893			ed on 24 hr	test

thru 20/64" chk. COR 903; Grav 38; CF Pkr; TF 225#.

	Distribution limited and publication prohibited by subscribers' agreement. Reproduction rights reserved by Williams & Lee Souting Service, Inc.		
CONT. Marsa	PROP DEPTH 9000	TYPE	61
D4 T			

F.R. 3-2-71; Opr's Eles, 3891' Ca PD 9000' RT (A' o) Contractor - Moran AMEND FIELD NAME, Formerly reported as 4-1-11 Undesignated. TD 3300'; Rng 8 5/8" (ssing 3-2-71 Drlg. 5965'lm 3-3-71 Erlg, 8407' 1m 3-15-71 TD 8945'; WOC 3-23-11 Cored 8695-8751', rec 56' tight dolo cored 8751-8802', rec 51' dolo wischt ppp a st i Cored 8802-59', rec 57' dolo w/scat frees & states good pore in bottom Cored 8859-8900', rec 41' dole w/dull flum, good pore à stain

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LEA		Vacu	uum NM	Sec 19,T	175. R36E
INGRAM,	TOM	L. 1	State "L"		Page #2
3-23-71		90' MCO + 2213#, FP	, rec 1530' 360' HG,0 8 1 16 -393#, 2	2 hrs, GTS oil (grav 4 & sli WCM, 1 2 hr FSIP 22 38' dolo w/go	0) + hr ISIP 13#
3-29-71		poro, scat DST 8902-4 rec 658' H 742' 0&GCW FP 1046-19 TD 8945'; Perf @ 878 8830', 883	stains & c 0', open 2 IG&OCM + 131 I + 2481' wt 034#, 2 hr H PED 8902'; 80', 8784',	dull fluor hrs, GTS 34 l6' HG & sli r, 1 hr ISID SSIP 2097# COMPLETE 878 , 8794 8856 , 8862	mín @ TSTM, WCO + 2423#,

.

3-29-71

4-1-71

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Continued Acid (8780-8893') 1000 gals (MA) LOG TOPS: Anhydrite 1804', Yates 3052', San Andres 4600', Clorieta 6253', Abo 8770' COMPLETION REPORTED 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

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State of New Mexico Energy Minerals and Natural Resources

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

Form C-104A Revised June 10, 2003

Submit 1 copy of the final affected wells list along with 1 copy of this form per number of wells on that list to appropriate District Office

Change of Operator

Previous Operator Information:		New Operator Information:		
		Effective Date:	March 1, 2004	
OGRID:	025797	New Ogrid:	147179	
Name:	Permian Resources, Inc.	New Name:	Chesapeake Operating, Inc.	
Address:	P.O. Box 590	Address:	P.O. Box 18496	
Address:		Address:		
City, State, Zip:	Midland, TX 79702-0590	City, State, Zip:	Oklahoma City, OK 73154-0496	

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

New Operator Signature:	Duzlos gran	
Printed name:	Douglas Jacobson	15 25 25 15 15 15 15 15 15 15 15 15 15 15 15 15
Title: E-mail Address:	Sr. Vice President	2000
Date:	04/01/04 Phone: (405) 848-8	3000 SUDIEL 21 LI
Previous operato Previous	or complete below:	NMOCD Approval
	PERMIAN RESOURCES, INC.	Signature:
Previous		Printed
OGRID:	025797	Name: PAUL F KIMUTE
Signature:	Mit Hull	District:PETROLEUM ENGINEER
Printed Name:	ROBERT H. MARSHALL	Date: APR 0 8 2004
E-mail Address:		
		L

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01/00/200/ 10/02 MA 40	~ 007 4112	TIDLAND .	卤 004/007
Submit 3 Copies To Appropriate Distri	t State of	New Mexico	Form C-103
District I		and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II			WELL API NO. 30-025-23719
1301 W. Grand Ave., Artesia, NM 882		VATION DIVISION	5. Indicate Type of Lease
District III 1000 Rio Brazos Rd., Aztec, NM 87410		h St. Francis Dr.	STATE X FEE
District IV 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe	e, N or 87505	6. State Oil & Gas Lease No.
87505			1
SUNDRY NO (DO NOT USE THIS FORM FOR PRO DIFFERENT RESERVOIR. USE "API PROPOSALS.)	TICES AND REPORTS O POSALS TO DRILL OR TO DEE LICATION FOR PERMIT' (FOR	PEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name State L
1. Type of Well: Oil Well	Gas Well 🗌 Other		8. Well Number 1
2. Name of Operator Chesapeal	e Operating Inc.		9. OGRID Number 147179
3. Address of Operator 2010 F	ankin Hwy		10. Pool name or Wildcat
Midlar	d, TX 79701		Vacuum; Abo Reef
4. Well Location			· 100 100 1001
Unit Letter_C	: 990 feet from the	North line and 18	90 feet from the West line
Section 19	Township 17	S Range 36E	NMPM CountyLea
	11. Elevation (Show wh	nether DR, RKB, RT, GR, etc.,	
Pit or Below-grade Tank Application	ar Closure		
Pit typeDepth to Groun		rest freeh water well Dies	auce from nearest surface water
	il Below-Grade Tank: Vol		
			astruction Material
12. Check	Appropriate Box to Inc	dicate Nature of Notice,	Report or Other Data
NOTICE OF	NTENTION TO:	SUB	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK [PLUG AND ABANDON		
TEMPORARILY ABANDON			LLING OPNS. P AND A
PULL OR ALTER CASING [MULTIPLE COMPL		JOB 🗌
OTHER:		OTHER:	
Describe proposed or con	pleted operations. (Clearly	state all pertinent details, and	give pertinent dates, including estimated date
of starting any proposed or recompletion.	work). SEE RULE 1103. F	or Multiple Completions: Att	ach wellbore diagram of proposed completion
Chesapeake, respectfully, request	permission to plug this well	per the attached procedure.	
13			
-	SEE NE	XT PAGE	· · · · · · · · · · · · · · · · · · ·
•			
. •		_	
		-	
I hereby certify that the informatio	above is true and complete	to the best of my knowledge	and belief. I further certify that any pit or below-
grade tank has been/will be constructed	r closed according to NMOCD g	uidelines], a general permit] o	r an (attached) alternative OCD-approved plan
SIGNATURE CLASS		TTLE Regulatory Tech.	DATE 01/18/2007
Type or print name Shay Strickin		3-mail address:sstricklin@chk	
For State Use Only			
	1,1-1	_	
APPROVED BY: Laup	W. Wink 5	HERDERRESENTATIVE II/	STAFF MANAGER
APPROVED BY: <u>Law</u> Conditions of Approval (if any):	Wink of	TEBREPRESENTATIVE IL/	STAFF MANAGER DATE FEB 0 1
APPROVED BY: <u>Laur</u> Conditions of Approval (if any):	Winkort	TLE REPRESENTATIVE IL	STAFF MANAGER DATE FEB 0 1

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2907

005/007

T05-1900 B05- 2950

State L #1 Lea County, New Mexico. **Plugging Procedure**

Date: November 30, 2006

Location: 990' FNL & 1,890' FWL Sec. 19-T17S-R36E

Production Casing: 5 1/2" 14, 15.5 & 17# K-55 0-8,945'

PBTD/TD: 8,665'/ 8,945'

Current Perfs: Abo 8,780-11', 8,830-93' (below CIBP)

Recommended Procedure:

1. MIRU PU. NDWH/NUBOP. POH w/ 2 7/8" tbg, rods and pump.

RU slickline. Tag PBTD of 8,665'. 2.

6300' PERFYSAZ. F/6300-6200' WOCH TAG RIH w/ open ended tog to 6,000° and set a 50 sxs cement plug. PERFISQZ 50 OUTH IN TAGE 32.50 9518 SHOE Pull tog up to 3,350° and set a 50 sxs casing shoe plug. Tag plug. 3.

- 4.
- 2950 25 Pull the up to 2400² and set a 50 sxs cement plug. F/ 3000 2900 395' PERF+ 5QZ, OR TAGE 285 & SPOT 10 SX @ SURF. Pull the up to 400². Fill casing back to surface with cement. POH w/ the. Top off casing with 5.

6. cement.

RD and move off. Install dry hole marker and cut off dead men. Restore location. 7.

13³8 - 335' 8⁵8 - 3300 5^{1/}2 - 8945 GLOR, 6253

mtages.

1

49', 56', 3,450 , FTP

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pection onal

date. Irs.

Submit 3 Copies To Appropriate District Office <u>District I</u>	State of New Energy, Minerals and N		Form C-103 May 27, 2004 WELL API NO.
1625 N French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Ave , Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S tt Francis Dr., Santa Fe, NM 87505	OIL CONSERVATION DIVISION 1220 South St. Francis Dr.		30-025-23719 5. Indicate Type of Lease STATE X FEE 6. State Oil & Gas Lease No.
SUNDRY NO (DO NOT USE THIS FORM FOR PROI DIFFERENT RESERVOIR USE "APP	TICES AND REPORTS ON WEL POSALS TO DRILL OR TO DEEPEN OR LICATION FOR PERMIT" (FORM C-101	PLUG BACK TO A	7. Lease Name or Unit Agreement Name State L
PROPOSALS.) 1. Type of Well: Oil Well X	Gas Well 🗌 Other		8. Well Number 1
2. Name of Operator	e Operating Inc.		9. OGRID Number 147179
3. Address of Operator 2010 R	ankin Hwy d, TX 79701		10. Pool name or Wildcat Vacuum; Abo Reef
4. Well Location			
Unit Letter C	: 990 feet from the North		
Section 19	Township 17S	Range 36E	NMPM CountyLea
Pit or Below-grade Tank Application	3891 GR		
Pit typeDepth to Ground		sh water well Dist	ance from nearest surface water
	nil Below-Grade Tank: Volume	bbls; Co	nstruction Material
12. Check	Appropriate Box to Indicate	e Nature of Notice,	Report or Other Data
NOTICE OF	INTENTION TO:	SUB	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK [PLUG AND ABANDON	REMEDIAL WOR	K 🗌 ALTERING CASING 🗌
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRI	
PULL OR ALTER CASING /	MULTIPLE COMPL	CASING/CEMENT	JOB L
OTHER:		OTHER:	give pertinent dates, including estimated date
			tach wellbore diagram of proposed completion
2/14/07. Tag plug @1735, POOI	surface equipment, unhang, work w H w/tbg, POOH w/WL, perforate (Install dry hole marker. Well is P&	@385, RIH w/pkr set @	rods, strip OOH. 52, squeeze 70 sx @385, WOC, tag @235,
AD BOT, set ping @00-sumace, 22328 30 37 22328 30 37 22328 30 37 232 232 232 232 232 232 230 237 230 237 232 230 237 200 200 200 200 200 200 200 20	115 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Approved Liability u	as to plugging of the Well Bore. nder bond is retained until storation is completed.
I hereby certify that the information grade tank has been/will be constructed	on above is true and complete to the or closed according to NMOCD guideling	ne best of my knowledg nes [], a general permit []	e and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan 🛛.
SIGNATURE	tick lik TITLE	Regulatory Tech.	DATE 06/26/2007
Type or print name Shay Stricklii For State Use Only			kanaray com Talanhana Na (422)687 2002
U U	N	il address:sstricklin@ch	1 WIN 2 8 2007
APPROVED BY: <u>Conditions of Approval (if any)</u> :	N		1 WIN 2 8 2007

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Submit 3 Copies To Appropriate District State of New Mexico Office District I Energy, Minerals and Natural Resources	Form C-103 May 27, 2004				
1625 N. French Dr., Hobbs, NM 88240 District II	WELL API NO. 30-025-23719 5. Indicate Type of Lease STATE X FEE				
1301 W Grand Ave., Artesia, NM 88210 OIL CONSERVATION DIVISION District III 1220 South St. Francis Dr. 1000 Rio Brazos Rd, Aztec, NM 87410 Sente Fe NM 4 87505					
District IV I220 S. St. Françis Dr., Santa Fe, NM 87505	6. State Oil & Gas Lease No.				
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	7. Lease Name or Unit Agreement Name State L				
1. Type of Well: Oil Well X Gas Well Other	8. well Nulliber 1.				
2. Name of Operator Chesapeake Operating Inc.	9. OGRID Number, 147179				
3. Address of Operator 2010 Rankin Hwy Midland, TX 79701	10. Pool name or Wildcat Vacuum; Abo Reef				
4. Well Location	20 mm				
Unit Letter C : 990 feet from the North line and 18					
Section 19 Township 17S Range 36E 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3891 GR	NMPM CountyLea				
Pit or Below-grade Tank Application or Closure Pit type Depth to Groundwater Distance from nearest fresh water well	ance from nearest surface water				
	onstruction Material				
12. Check Appropriate Box to Indicate Nature of Notice,					
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING					
TEMPORARILY ABANDON CHANGE'PLANS COMMENCE DRI PULL'OR ALTER CASING ON MULTIPLE COMPLX CASING/CEMENT CASING/CEMENT COMMENCE DRI COMMENCE DRI	in the second				
OTHER: OTHER: OTHER: Location clean					
 Describe proposed or completed operations. (Clearly state all pertinent details, and of starting any proposed work). SEE RULE 1103. For Multiple Completions: At or recompletion. 					
Well was P&A on 2/13/07. Location has been cleaned and is ready for inspection.					
· · · · · ·					
	135 192021222328 19102328 151 4 4 192021222328 19102328 151 101 681 9910 2010 200 10101 681 9910 220 2010 200 2010 200 2010 200 2020 2020 203 2020 2020 2020 2020 2020 203 2020 2020 203 2020 2020 203 2020 2020 2020 2020 2020 203 2020 2020 2020 2020 2020 2020 2020 2020				
	101681957524				
I hereby certify that the information above is true and complete to the best of my knowledge grade tank has been/will be constructed or closed according to NMOCD guidelines [], a general permit []					
SIGNATURE Hasticellin TITLE Regulatory Tech.	DATE 08/17/2007				
Type or print name Shay Stricklin For State Use Only	kenergy.com Telephone No. (432)687-2992				
APPROVED BY: Law W. W. TITLE Conditions of Approval (if any?)	ADG 2 1 2007				

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Submit 3 Copies To Appropriate District Office	Energy, Minerals and Natural Resources ⁸²⁴⁰ OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-103 May 27, 2004	
<u>District I</u> 1625 N French Dr, Hobbs, NM 88240			WELL API N	Ю.	
District II 1301 W. Grand Ave., Artesia, NM 88210			5. Indicate Ty	30-025-23719	
District III 1000 Rio Brazos Rd , Aztec, NM 87410			STATE		
District IV 1220 S St. Francis Dr., Santa Fe, NM			6. State Oil &	t Gas Lease No.	
87505					
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)		7. Lease Name or Unit Agreement Name State L			
1. Type of Well: Oil Well	Gas Well 🔲 Other		8. Well Number 1		
2. Name of Operator			9. OGRID Number 147179		
Chesapeake Operating Inc. 3. Address of Operator 2010 Rankin Hwy		10. Pool name or Wildcat			
Midland, TX 79701		Vacuum; Abo Reef			
4. Well Location					
		North line and 18		t from the West line	
Section 19	Township 17	7S Range 36E	NMPM	CountyLea	
	3891 GR	meiner DR, KKD, KI, OK, eic	·/ \\\	a de la companya de El de la companya de El de la companya de	
Pit or Below-grade Tank Application	or Closure				
		earest fresh water well Dis			
Pit Liner Thickness: mil			construction Materia		
12. Check	Appropriate Box to In	ndicate Nature of Notice,	Report or Ot	her Data	
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS. P AND A PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMENT JOB V					
OTHER:		OTHER:Install d	rv hole marker a	nd clean location.	
 Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE-1103. For Multiple Completions: Attach wellbore diagram of proposed completion 					
or recompletion. 2/14/07. Tag plug @ 1735, POOH w/tbg, POOH w/WL, perforate @ 385, RIH w/pkr set @ 52, squeeze 70 sx @ 385, WOC, tag @					
235, ND BOP, set plug @ 60. Install dry hole marker. Well is P&A. Location has been cleaned and is ready for inspection.					
		على			
				•	
I hereby certify that the information	above is true and comple	ete to the best of my knowledge	ge and belief. I f	urther certify that any pit or below-	
grade tank has been will be constructed or	r closed according to NMOCE) guidelines [], a general permit [_] or an (attached) al	iternative OCD-approved plan 🛛.	
SIGNATURE LA	Miller M	TITLE Regulatory Tech.		DATE 08/17/2007	
Type or print name Shay Stricklin For State Use Only	. 0	E-mail address:sstricklin@c	hkenergy.com	Telephone No. (432)687-2992	
911	$\lambda \lambda \lambda$			× .	
APPROVED BY: <u>Conditions of Approval (if any)</u>	NUMBS	NELFERN HERBERGAT	WITH PERMIT AND A BUS	AUG 2 1 2007	
Conditions of Approval (It any)					