AP-94 Marbob Scratch State Corn No 1, Lea County

"drilling fluid leak through rupture of plastic liner" 12 mil plastic liner under Rule 50

one form says GW > 100 feet (C-144 dated Dec 13, 2004), another form says GW < 50 ft (C-144 dated September 21, 2007)

April 2005 - well spudded

August 2007 - form C-141 submitted "compromised pit" encountered wet soils and water at 40 ft bgs; "most of pit material has been removed"

August 2007 - soil investigation

Sept 2007 - monitoring well 1 east side of pit

Oct 2007 - monitoring well 2 (north side of pit) and 3 (south side of pit) developed August 2008 - Stage 1 Abatement Plan requested - agency claims Marbob should have submitted a second C-141 back in October 2007 when they determined groundwater impacts occurred

Monitoring well - first sampling event

MW1 - 396 mg/l Cl

MW2 - 45,590 mg/l Cl

second sampling event

MW1 - 708 mg/l Cl

MW2 - no data

MW3 - 472 mg/l Cl (purged 1/2 gallon)

october sampling event

MW1 - 2260 mg/l Cl

MW2 - 42,800 mg/l Cl

MW3 - 400 mg/l Cl

Jan sampling event

MW1 - 35,200 mg/l Cl

MW2 - 44,400 mg/l Cl

# AP - 094

# GENERAL CORRESPONDENCE

2008 - 2007

#### **Bill Richardson**

Governor

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary Mark Fesmire
Division Director
Oil Conservation Division



**AUGUST 18, 2008** 

Mr. Rand French Marbob Energy Corporation P.O. Box 227 Artesia, NM 88211

RE: REQUIREMENT TO SUBMIT ABATEMENT PLAN MARBOB ENERGY - SCRATCH STATE DRILLING PIT SECTION 24, TOWNSHIP 18 SOUTH, RANGE 33 EAST LEA COUNTY, NEW MEXICO OCD CASE NO. AP094

Dear Mr. French:

The Oil Conservation Division (OCD) has determined that Marbob Energy (Marbob) must submit a Stage 1 Abatement Plan in accordance with OCD Rule 19 (19.15.1.19 NMAC) to investigate ground water contamination at its Scratch State drilling pit, located in Section 24, Township 18 South, Range 33 East, Lea County, New Mexico. The Stage 1 Abatement Plan proposal must be submitted to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office and must meet all of the requirements specified in OCD Rule 19 (19.15.1.19 NMAC), including, but not limited to, the public notice and participation requirements specified in Rule 19G. The Stage 1 Abatement Plan is due sixty (60) days from the receipt by Marbob of this written notice.

Marbob's Stage 1 Abatement Plan must specifically meet all of the requirements specified in OCD Rule 19E.3, including, but not limited to, a site investigation work plan and monitoring program that will enable it to characterize the release using an appropriate number of isoconcentration maps and cross sections and to provide the data necessary to select and design an effective abatement option. Marbob may, if it chooses, concurrently submit a Stage 2 Abatement Plan that addresses appropriate proactive abatement options.

Marbob submitted timely verbal and written notification to OCD when it discovered potential ground water contamination on August 24, 2007. Marbob indicated that it did not know the extent of the impacts at the time that it submitted its C-141. In September 2007 Marbob



conducted additional soil and ground water investigation. Laboratory analysis conducted in early October 2007 confirmed that Marbob had contaminated ground water. However, Marbob did not inform OCD that it had confirmed a ground water release; rather it continued to sample ground water several times. On July 11, 2008, Glenn von Gonten of my staff contacted Cliff Brunson and asked about the status of this case. Mr. Brunson indicated that he would send OCD the analytical data; however, it was only after three more reminders from OCD that the analytical data was finally submitted. The appropriate approach for Marbob was to have submitted a second C-141 in October 2007 when it confirmed that ground water had indeed been contaminated. This is the last time that OCD will choose not to take enforcement action for Marbob's failure to comply with Rule 116 and to promptly submit confirmatory analytical data to OCD in a timely manner.

Marbob should submit one paper copy with and an electronic copy on CD of all future workplans and/or reports. Please refer to *OCD Case No. AP094* on all future correspondence. If you have any questions, please contact Glenn von Gonten of my staff at (505) 476-3488.

Sincerely,

Wayne Price

Environmental Bureau Chief

WP/gvg

cc:

Chris Williams Larry Johnson District 1
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

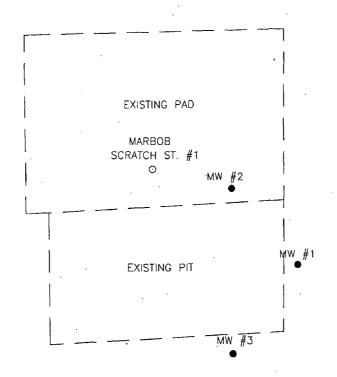
Form C-141 Revised October, 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

# RECEI230 Court St. Francis Dr. Santa Fe, NM 87505

Release Nortication and Corrective Action

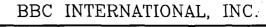
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Surface Owner 5 Hate OF 1 M Mineral Owner	State	Lease No.							
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Name of Company Markub. Exercity (i.e. 1. Telephone No. 505-307 - 838 Tarkera knowl Address Pt. Bock 277 Artisia (n.m. \$8211 Telephone No. 505-307 - 8388 Tarkera knowl Artis.  Surface Owner 54te ef 2.m. Mineral Owner 54te Lease No.  Location Of Release  Lunit Letter Section Township Range Feet from the North-South Line Feet from the East-West Line County  Latitude Longitude  NATURE OF RELEASE  Type of Release P. F. Lung  Source of Release P. Date and flour of Occurrence P. Date and flour of Discovery Space (1988)  Was immediate Notice Given?  Was immediate Notice Given?  Was a Waltercourse Reached?  Was a Waltercourse was Impacted, Describe Fully.*  Was a Waltercourse was Impacted, Describe Fully.*  Was the Exercise of Problem and Remedial Action Taken.*  Obscribe Cause of Problem and Remedial Action Taken.*  Obscribe Cause of Problem and Remedial Action Taken.*  Obscribe Area Affected and Cleanup Action Taken.*  Obscribe Area Affected and Cleanup Action Taken.*  Obscribe Area Affected and Cleanup Action Taken.*  Was fee of P. Lung Spee of Chloricles & 12 feet.  Therefore certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and public feet in the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of responsibility for compliance with any other feeders, and the pursuant to NMOCD acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of responsibility for compliance with any other feeders, and the pursuant to NMOCD acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of responsibility for compliance with any other feeders, and the pursuant to NMOCD acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of responsibility for compliance with any other feeders, and the pursuant to NMOCD acceptance of a C-141 report does not relieve the operator of r									
24 185 336 1980	OPERATOR   Initial Report   Final Report    Pay (c.p.   Contact   // H   Bumson - BBC   International    I Telephone No. 505-397 - 6388    Facility Type of well   Dulling Rt    Mineral Owner   State   Lease No.    LOCATION OF RELEASE    Feet from the   North/South Line   Feet from the   East West Line   County    FRO   North   Go   WEST   LEA.    Latitude   Longitude    NATURE OF RELEASE    Volume of Release   Dak Racust   Volume Recovered   North    Date and Hour of Occurrence   Date and Hour of Discovery   State    Date and Hour of Occurrence   Date and Hour of Discovery   State    Bumson   Date and Hour of Occurrence   Date and Hour of Discovery   State    Bumson   Date and Hour of Occurrence   Date and Hour of Discovery   State    Bumson   Date and Hour of Occurrence   Date and Hour of Discovery   State    Bumson   Date and Hour of Occurrence   Date and Hour of Discovery   State    Bumson   Date and Hour of Occurrence   Date and Hour of Discovery   State    Bumson   Date and Hour of Occurrence   Date and Hour of Discovery   State    Bumson   Date and Hour of Occurrence   Date and Hour of Discovery   State    Bumson   Date and Hour of Occurrence   Date and Hour of Discovery   State    Bumson   Date and Hour of Occurrence   Date and Hour of Discovery   State    Bumson   Date and Hour of Occurrence   Date and Hour of Discovery   State    Bumson   Date and Hour of Occurrence   Date and Hour of Discovery   State    Bumson   Date and Hour of Occurrence   Date and Hour of Discovery   State   Date    Bumson   Date and Hour of Discovery   State   Date    Bumson   Date and Hour of Date   Date   Date   Date    Bumson   Date and Hour of Date   Dat								
Latitude	Longitude								
		· · · · · · · · · · · · · · · · · · ·							
	Volume of Release Unkn	Volume Recovered None							
		Date and Hour of Discovery 3/30/07							
Was infinediate Notice Given:    Yes □ No □ Not Require	d \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	- Oliver - Illiana Dias every							
	- Lanet official	2:00 one							
Was a Watercourse Reached?	If YES, Volume Impacting the	ne Watercourse.							
☐ Yes □ No	Ukno	W.							
If a Watercourse was Impacted, Describe Fully.*									
Do not Know the extent of In	pacts at this	time							
1									
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed or the environment. In addition, NMOCD acceptance of a C-141 report	the best of my knowledge and use notifications and perform correct the NMOCD marked as "Final Related contamination that pose a three	tive actions for releases which may endanger eport" does not relieve the operator of liability eat to ground water, surface water, human health							
	OIL CONS	SERVATION DIVISION							
Signature: Hard Fresch									
Printed Name: RANT FRENCH	Approved by District Supervisor	or:							
Tille: Wildlife Biologist	Approval Date:	Expiration Date:							
E-mail Address: Wildlife Q. MARING. Com	OPERATOR   Initial Report   Final Report    AFORMAN CONTROL CONTROL ()   H Bunsson - BBC Falking bung    ATTENDATION OF SELENGE   Facility Type of well   Duthing Rt    Am   Mineral Owner   State   Lease No.    LOCATION OF RELEASE    P Range   Feet from the   North/South Line   Feet from the   East/West Line   County    33 & 1980   North   660   W1257   LEA.    Latitude   Longitude    NATURE OF RELEASE    Volume of Release   LAKOLUL   Volume Recovered   None    Date and Hour of Occurrence   Date and Hour of Discovery   1/130    Wes   No   Not Required   Mine   State   Market   Dune   Wayne   Recovered    Wes   No   Not Required   Mine   State   Market   Dune   Wayne   Recovered    Wes   No   Not Required   Mine   State   Market   Dune   Wayne   Recovered    Wes   No   Not Required   Mine   State   Market   Dune   Wayne   Recovered   Mine   Mine								
OPERATOR									



WELL	COORDINATES	ELEVATIONS
MW #1	631744.7 N 759929.6 E	NATURAL GROUND - 3891.36' TOP OF PVC - 3894.31' TOP OF CONCRETE - 3891.47'
MW #2	631831.0 N 759853.6 E	NATURAL GROUND - 3893.55' TOP OF PVC - 3896.50' TOP OF CONCRETE - 3893.76'
MW #3	631645.9 N 759855.5 E	NATURAL GROUND — 3891.82' TOP OF PVC — 3894.78' TOP OF CONCRETE — 3892.05'

100 0 100 200 FEET

Scale: 1"=100'

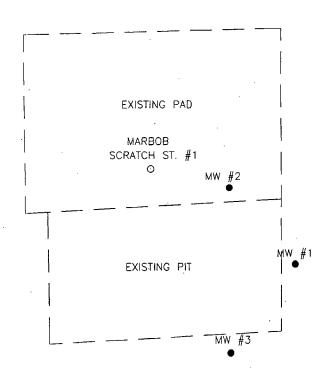




PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

SCRATCH STATE COM #1

Survey Date: 10/22	/007	Sheet	1	of	1	Sheets
W.O. Number: 07.11	.1397	Drawn (	3y: l	A.		
Date: 10/26/07 DIS	K: CD#6	0711	397		REV:	3/7/08



WELL	COORDINATES	ELEVATIONS
MW #1	631744.7 N 759929.6 E	NATURAL GROUND — 3891.36' TOP OF PVC — 3894.31' TOP OF CONCRETE — 3891.47'
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100 0 100 200 FEET

Scale:1"=100'



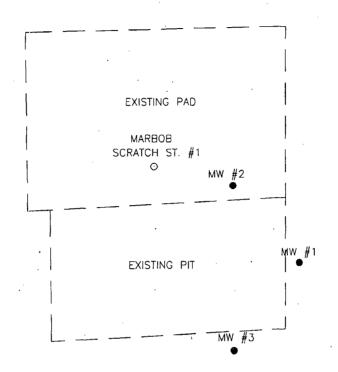
PROVIDING SURVEYING SERVICES
SINCE 1946

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

# BBC INTERNATIONAL, INC.

SCRATCH STATE COM #1

Survey Date: 10/22/007	Sheet 1 of 1 Sheets
W.O. Number: 07.11.1397	Drawn By: L.A.
Date: 10/26/07 DISK: CD#6	07111397 REV:8/7/08



WELL	COORDINATES	ELEVATIONS
MW #1	631744.7 N 759929.6 E	NATURAL GROUND - 3891.36' TOP OF PVC - 3894.31' TOP OF CONCRETE - 3891.47'
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100 0 100 200 FEET

Scale:1"=100'



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAI. PASO
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# BBC INTERNATIONAL, INC.

### SCRATCH STATE COM #1

Survey Date: 10/22/007	Sheet 1 of	1 Sheets
W.O. Number: 07.11.1397	Drawn By: L.A.	
Date: 10/26/07 DISK: CD#6	07111397	REV:8/7/08

#### Activities Summary - Marbob Scratch State #1

BBC began performing field screens for chloride on soil samples from the pit bottom at Scratch State Com #1 on August 9, 2007. Chloride levels in soil samples in the north half of the pit continued to exceed NMOCD guidelines as the depth for sample collection increased. The north half of the excavation continued to deepen as samples were screened. On August 20, 2007, groundwater was encountered at approximately 40 feet below ground surface in the northeast corner of the excavation. A trench of similar depth was excavated at the northwest corner however no water was encountered at that location.

On September 10, 2007, BBC contracted Eco/Enviro Drilling to place a monitoring well (MW1) near the northeast corner of the excavation. MW1 was located on the east side of the pit near the north corner. Four soil samples were collected during drilling of MW1. At 35 feet bgs chloride content was less than 16 parts per million (ppm or mg/Kg), the 40 foot sample contained 3,919 ppm, the 45 foot sample contained 3,479 ppm, and the 50 foot sample showed 208 ppm. Drilling ceased at 50 feet bgs and the well was set with a 2 inch casing and 15 feet of 0.20 mm screen. The well was not yet vaulted, and BBC developed MW1 in the afternoon of the same day. 12.77 feet of water (2.08 gallons) existed in the well and 6.24 gallons were purged.

On September 11, 2007, BBC sampled the groundwater for chloride at MW1. The sample contained 396 ppm (mg/L).

Eco/Enviro Drilling returned on September 27-28, 2007 to install the second and third monitoring wells (MW2 and MW3). MW2 was placed on the north side of the excavation and toward the east corner. Five soil samples were collected during drilling of MW2. At 35 feet bgs chloride content was 9,800 ppm, the 40 foot sample contained 5,040 ppm, the 45 foot sample contained 3,240 ppm, the 50 foot sample showed 5,040 ppm, and the 55 foot sample contained 528 ppm. Drilling ceased at 55 feet bgs and the well was set with a 2 inch casing and 15 feet of 0.20 mm screen. The well was not yet vaulted. MW3 was placed on the south side of the excavation directly south of MW2. Five soil samples were collected during drilling of MW3. At 35 feet bgs chloride content was 48 ppm, the 40 foot sample contained 64 ppm, the 45 foot sample contained 192 ppm, the 50 foot sample showed 176 ppm, and the 55 foot sample contained 64 ppm. Drilling ceased at 55 feet bgs and the well was set with a 2 inch casing and 15 feet of 0.20 mm screen. The well was not yet vaulted. BBC developed MW2 on the afternoon of September 28, 2007. 14.05 feet of water (2.29 gallons) existed in the well and 6.87 gallons were purged. Since MW3 was not yet recharging, it was decided to postpone development of MW3 until October 1, 2007.

On October 1, 2007, BBC sampled the groundwater for chloride at MW2. The sample contained 45,590 ppm. BBC also developed MW3 the same afternoon. Gauging data indicated that 4.97 feet of water existed in MW3 (0.81 gallons). BBC purged 1 gallon of groundwater before the groundwater pump clogged with sediment. Two hours later, BBC returned using a bailer to purge another 1.5 gallons of water and sediment from MW3. MW3 was emptied.

BBC returned to collect groundwater samples for chloride on October 2, 2007 from both MW1 and MW3 for the purpose of having near simultaneous groundwater data for all three monitoring wells. The groundwater sample from MW1 contained 708 ppm. The sample from MW3 contained 472 ppm. During sampling activities it was noted that MW3 contained only 2.94 feet of water in the water column. Only 0.5 gallons and more sediment were purged.

On October 3, 2007, BBC purged MW2 and MW3. MW2 would be purged as often as possible due to the results of the laboratory data from the first samples collected. 14.17 feet of water (2.31 gallons) existed in the water column and 11 gallons were purged. MW3 would be purged in an attempt to encourage recharge of the well. 1.32 feet of water (0.22 gallons) existed in the water column and 0.25 gallons were purged.

All three monitoring wells were vaulted on October 19, 2007. On this afternoon, all wells were gauged and 11 gallons were purged from MW2.

On October 22, 2007, the site was surveyed by John West Surveying Company. The survey included monitoring well elevations. Also on this date, BBC again purged MW2 and MW3. In MW2, 13:84 feet of water (2.26 gallons) existed in the water column and 10 gallons were purged. In MW3, 1.59 feet of water (0.26 gallons) existed in the water column and 0.25 gallons were purged.

BBC collected groundwater samples from all three monitoring wells on October 23, 2007. The sample from MW1 contained 2,260 ppm chloride, the sample from MW2 contained 42,800 ppm, and the sample from MW3 contained 400 ppm.

During the month of November, MW2 continued to be purged. The water level in MW3 remained at less than 0.5 feet in the water column.

On December 4, 2007, BBC purged all monitor wells, however from this date on only sampled groundwater from MW1 and MW2. MW3 was not sampled again due to failure of the well to recharge after purging. The sample from MW1 showed 512 ppm chloride and MW2 contained 42,400 ppm.

BBC continued to purge MW2 through January of 2008. On January 24, 2008, BBC collected groundwater samples from MW1 and MW2. The sample from MW1 contained 35,200 ppm chloride and the sample from MW2 showed 44,400 ppm. From this date forward, both MW1 and MW2 were purged as often as possible.

On April 14, 2008, BBC collected groundwater samples from MW1 and MW2. The sample from MW1 contained 14,600 ppm chloride and the sample from MW2 contained 48,800 ppm.

BBC also received permission from Marbob Energy to order a ground water pumping unit to install at MW2 in order for the well to be purged continuously. BBC has received the pumping unit for MW2 installation and will soon complete the installation. BBC continues to purge MW1 and MW2 and has regularly noted a slight decrease in the amount of water in the column of both monitoring wells.





PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241

FAX TO: (505) 397-0397

Receiving Date: 09/12/07 Reporting Date: 09/14/07 Project Owner: MARBOB

Project Name: SCRATCH ST. COM #1

Project Location: MALJAMAR, NM

Analysis Date: 09/13/07 Sampling Date: 09/10/07 Sample Type: SOIL

Sample Condition: COOL& INTACT

Sample Received By: NF

Analyzed By: HM

CI LAB NUMBER SAMPLE ID (mg/Kg) H13282-1 MW1 @ 35' < 16 H13282-2 MW1 @ 40' 3919 MW1 @ 45' H13282-3 3479 H13282-4 MW1 @ 50' 208 **Quality Control** 500 True Value QC 500 % Recovery 100 Relative Percent Difference < 0.1

METHOD: Standard Methods 4500-CIB Note: Analyses performed on 1:4 w.v aqueous extracts

H13282 BBC

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC. 2111 Beechwood, Abliene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2328 Fax (505) 393-2478 Company Name: Internationa BILL TO ANALYSIS REQUES Brunson Project Manager: P.O. #: Address: 1324 . W. Marland Company: State: NM Zip: 88740 Attn: Project # Project Owner: Nar bob Address City: # Project Name: State: Zin: Project Location: NK Phone #: Fax #: Sampler Name: FOR LAB USE CILY MATRIX PRESERY. SAMPLING Lab I.D. Sample I.D. DATE TIME H13282-1 9/10/07 1345 9/10/07/14/0 9/16/07 30 days part the st for falls of \$1.50 per stream term for uniqued that at horsely food at cooled of cooleddors, best about these of horsely have servers. In no every mad Caretral to been for restanted or companies of correspond to the substitution of ria. Yesteko sebereris laur. Indiana or Account a 20th and all or locked to the Porturnation of Services Indianable by European (I shadow) repute the mental such distants bested upon any of the storm stated restore as presented Sampler Relinguished: Add' Phone #: Phone Rosult: D Yes Dale: Received By: Fax Repult: DYBS D No Add | Fax #: REHARKSI Received By: (Lab Sta CHECKED BY: Cool intact No Ho :UPS - Bus - Other لستعا † Cardinal cannot accept yerbal changes. Please fax written changes to 505-393-2476.



PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX:TO: (505) 397-0397

Receiving Date: 09/27/07

Reporting Date: 09/28/07 Project Owner, MARBOB

Project Name: SCRATCH ST. COM #1

Project Location: MALJAMAR, NM

Analysis Date: 09/28/07 Sampling Date: 09/27/07 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: KS

Analyzed By: HM

		CF
LAB NUMBER	SAMPLE ID	(mg/Kg)
H13393-1	MW2 35'	9,800
H13393-2	MW2 40'	5,040
H13393-3	MW2 45'	3,240
H13393-4	MW2 50'	5,040
H13393-5	MW2 55'	528
Quality Control		490
True Value QC		500
% Recovery		98.0
Relative Percen	t Difference	2.0

METHOD: Standard Methods 4500-Cl'B

Note: Analyses performed on 1:4 w;v aqueous extracts.

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Chertist

09-28-0

Date

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.

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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.





PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 09/04/07 Reporting Date: 09/06/07 Project Owner: MARBOB

Project Name: SCRATCH ST. COM #1 Project Location: MALJAMAR, NM Analysis Date: 09/06/07 Sampling Date: 08/14/07 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: NF

Analyzed By: KS

•	•		Cl
LAB NUMBER	SAMPLE ID		(mg/Kg)
H13233-1	PIT BOTTOM		128
·			
		,	
Quality Control	<u> </u>		500
True Value QC			500
% Recovery			100
Relative Percen	t Difference		< 0.1

METHOD: Standard Methods 4500-CГВ

Note: Analysis performed on a 1:4 w.v aqueous extract.

Chemis

Date

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2478 Company Name: BILL TO ANALYSIS REQUEST Project Hanager: P.O. #: Company: State: N/M ZIp: 88740 Phone # 505-397-6388 Fax# 505-397-0397 Project Owner: Nay bob Project #: City: Project Name: State: Project Location: Phone #: Sampler Name: Fax #: FOR LAB USE CHLY MATRIX PRESERV. SAMPLING Lab I.D. Sample I.D. DATE 8/14/07/1100 30 days part day at the falls of 25% per acture tour to estated date of tracker and at courts of controllers, well-they actures is fore. LOGICAL, AL CHAIR STOLES OF THE DESCRIPT WATER COME WITH DOTTER WITH DOTTER STATE OF THE WITH DOTTER WITH DOTTER WITH DOTTER WITH A CHAIR STOLES OF THE WITH DOTTER WITH DOTTE terrise. In na every med Central by these for material or betweepings of burnipes, helicing indicate fritandes, bushees triangulars, lose of use, or jose of profits theories by effect, he substitutes, and not a consider stating ful of or forced to the particulation of controls because of the province of the province of control because of the province of the |Add | Phone #: Sampler Relinguished: Received By: Phone Result: ☐ Yae CI No Fax Regult: Time: REMARKSI Received By CHECKED BY:

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<sup>†</sup> Cardinal cannot accept yerbal changes. Please fax written changes to 505-393-2476.



PHONE (325) 673-7001 - 2111 BEECHWOOD - ABILENE, TX 78603

PHONE (505) 393-2326 - 101 E. MARLAND - HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241

FAX TO: (505) 397-0397

Receiving Date: 09/12/07 Reporting Date: 09/13/07 Project Owner: MARBOB

Project Name: SCRATCH ST. COM #1 Project Location: MALJAMAR, NM

Analysis Date: 09/13/07 Sampling Date: 09/11/07

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: NF

Analyzed By: KS

		Cl
LAB NUMBER	SAMPLE ID	(mg/L)
H13281-1	MW 1	396
,	ور مصيد رسود المناسم بندون معصرا	
		المستقل المستق
er russer rossen i grand par r		
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent	Difference	< 0.1
		The same of the sa
METHOD: Standa	d Methods	4500-CIB

Busta Superto

09/13/07

H13281 BBC

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remady for any claim arising, whether based in contract or tori, shall be limited to the amount paid by client for attrity-on. All claims, including mose for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In one event shall be included be liable for incidental or consequential damages, including, without limitation. Dustriess interruptions, loss of use, or loss of profits incurred by client, its substituties, affiliated or successors arising out of or related to the performance of aervices hereunder by Cardinal, regardless of whether such claim is based upon any or the above-stated reasons or otherwise.

ARDINAL LABORATORIES, INC.

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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<sup>†</sup> Cardinal cannot accept yerbal changes. Please lax written changes to 505-393-2476,





PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 09/27/07 Reporting Date: 09/28/07 Project Owner: MARBOB

Project Name: SCRATCH ST. COM #1 Project Location: MALJAMAR, NM.

Analysis Date: 09/28/07 Sampling Date: 09/27/07 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: KS

Analyzed By: HM

		Cl
LAB NUMBER	SAMPLE ID	(mg/Kg)
H13393-1	MW2 35'	9,800
H13393-2	MW2 40'	5,040
H13393-3	MW2 45'	3,240
H13393-4	MW2 50'	5,040
H13393-5	MW2 55'	528
	American (C. S. C. 1995) and the second of t	
Quality Control		490
True Value QC		500
% Recovery		98.0
Relative Percen	t Difference	2.0

METHOD: Standard Methods

4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

H13393 BBC

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.

	2111 Beechwood, . (915) 673-7001 F	Abilene, TX 790	303 ·	101	East	Mar	land	, Но	addo	, Nh	1 88240		•				,			0	1	of1		
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.



PHONE (325) 673-7001 - 2111 BEECHWOOD - ABILENE, TX 79603

PHONE (505) 393-2328 - 101 E. MARLAND - HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 10/02/07 Reporting Date: 10/02/07

Project Owner: MARBOB

Project Name: SCRATCH ST. COM #1

Project Location: MALJAMAR, NM

Analysis Date: 10/02/07 Sampling Date: 09/28/07

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: NF

Analyzed By: KS

•		CI
LAB NUMBER	SAMPLE ID	(mg/Kg)
H13410-1	MW3 35'	48
H13410-2	MW3 40'	64
H13410-3	MW3 45'	192
H13410-4	MW3 50'	176
H13410-5	MW3 55'	64
Quality Control		500
True Value QC		500
9/ Popour		
% Recovery		100

METHOD: Standard Methods 4500-CFB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Busta Duploke

Date

H13410 BBC

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim stisting, whether based in contract or tool, shull be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be fiable for incidental or consequential damages, including, without limitetion, business interruptions, tust of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.	•	:	
2111 Beechwood, Abliene, TX 79503 101 East Merland (S15) 573-7001 Fax (S15) 673-7020 (506) 383-2328 Fa	1, Hobbs, NM 88240		_ 1 1
Company Hame: BBC International Inc.	87LE 770	ANALY CONTRACTOR	Page of SIS REQUEST
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Address: 1324 W. Marland		4	
	Company:	~	
	Alu:	-	
Phone # 505-397-6388 Fax# 505-397-0397	Address	4	
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	Stote: Zip:		
Project Location: Maljamar	Phone #:	-	
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PHONE (325) 673-7001 - 2111 BEECHWOOD - ABILENE, TX 79803

PHONE (505) 393-2326 - 101 E. MARLAND - HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 10/02/07 Reporting Date: 10/02/07

Project Owner: MARBOB
Project Name: SCRATCH ST. COM #1

Project Location: MALJAMAR, NM

Analysis Date: 10/02/07 Sampling Date: 10/01/07

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: NF

Analyzed By: KS

		Cl
LAB NUMBER	SAMPLE ID	(mg/L)
H13411-1	MW 2	45,590
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True Value QC	to see the contract of the con	500
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	t Difference	100

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10/02/07 Date

H13411 BBC

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remody for any claim arizing, whether based in contract or ton, shall be limited to the aniount paid by client for antitysos. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the (up/ficible service). In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, lose of use, or lose of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of Whather such claim is based upon any of the above-stated reasons or otherwise.

ARDINAL LA

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.

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<sup>†</sup> Cardinal cannot accept verbal changes. Please lax written changes to 506-393-2476.



PHONE (325) 673-7001 - 2111 BEECHWOOD - ABILENE, TX 79603

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 10/03/07 Reporting Date: 10/04/07 Project Owner: MARBOB

Project Name: SCRATCH ST. COM #1 Project Location: MALJAMAR, NM Analysis Date: 10/03/07 Sampling Date: 10/02/07

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: AB

Analyzed By: HM

		Cſ
LAB NUMBER	SAMPLE ID	(mg/L)
H13431-1	MW 1	708
H13431-2	MW 3	472
Quality Control		500
Quality Control True Value QC		500 500
True Value QC		
	t Difference	500

Briston Suprato

10/04/07

H13431 BBC

# ARDINAL LABORATORIES

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020 Company Name: BRO ANALYSIS REQUEST BILL TO Project Manager: P.O. #: Address: 1374 Company: State: NM Zip: 88240 Attn: Phone #: 575-397-639A Fax#: 585-397-0397 Address: Project #: Project Owner: | Y City: Project Name: State Project Location: M Phone #: Sampler Name: Fax#: FOREARUSECHLY MATRIX PRESERV. SAMPLING Lab I.D. Sample I.D. ACID/BASE. SLUDGE DATE TIME H13431-1 MWI G-2 MW2 10/2/07/1835 PLEASE NOTE: Lightly and Comages. Cardinal's fieldly and chart's exclusive remody for any chain arising whether besed in contract or tool, shall be limited to the amount paid by the client for the analysts of during missaing base ion neighbors and any other tause whosever shall be deemed writed unless made in writing and recoved by Cardinal edition 10 days after completion of the appairable struction in the every shart Canada as inside the incidental or cord accounted duringes, including without limitation, business historyticals, loss of use, or loss of professionaries by clean, the subsidiaries. Relinquished By: Quie: Received By: D No. Phone Result: □ Yes Add'l Phone # Fax Result: D Yes D No Time: REMARKS: Relinguished B Date://D/3/07 Time: Received By: Sample Condition CHECKED BY: Cool Intact Yes Yes Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 78603

PHONE (505) 393-2326 - 101 E. MARLAND - HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805

HOBBS, NM 88241 FAX TO: (575) 397-0397

Receiving Date: 10/24/07 Reporting Date: 10/24/07

Project Owner: MARBOB

Project Name: SCRATCH ST. COM #1

Project Location: MALJAMAR, NM

Analysis Date: 10/24/07

Sampling Date: 10/23/07

Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: KS

		Cl
LAB NUMBER	SAMPLE ID	(mg/L)
H13569-1	MW 1	2,260
H13569-2	MW 2	42,800
H13569-3	MW 3	400
	-1 · - <del>i · </del>	***************************************
Quality Control		490
True Value QC	111 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	500
% Recovery		98.0
Relative Percent	Difference	< 0.1
METHOD: Standa	rd Mothada	4500-CFB
INICI HOD. Standa	IN INCHIOUS	7300-C1 D

Krista Suppolo

10/24/67

H13569 BBC

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 78803 101 East Merland, Hobbs, NM 86240 (915) 673-7001 Fax (915) 673-7020 (606) 393-2328 Fax (505) 383-2478 Соптралу Напе: Brut TO tarnation & Inc ANALYSIS REQUES Profect Manager: P.O. 供 eeerbba Company: State: N/M ZIp: 88240 Attn: 388 Fex# 505-397-1397 Address Project Owner: (12 pb b CHY: Project # ZIp: Project Name: State: Project Location: Phone #: Sampler Name: Fax #: HATRIX PRESERY. SAHPLIHG POR US USE CHLY (C) (G) RAB OR (G) OND Sample J.D. Lab I.D. DATE TIME 1923/07/1310 G MW 2 10/23/07/12/0 MW3 מש שיום בש מ של אים ל לוא בר אורבים זיבר זה מילים בנון מיורים. Married, At out to receive from the encourse and any other to an electronic field by designed trained or finding and received by Cardinal right 30 days of the completions of the explorable terious large treat and Control to been for respected or consumationary consumer, transfer refresh business between the report of uses, or you of press because by their be exhausted the exhausted pressed for the exhausted pressed for the exhausted pressed for the exhausted pressed for the exhausted pressed for the exhausted for the exhausted pressed for the exhausted fo Street or present a party art of tourn in on party proses before the party by Cartinal France of what to the party of the Add Phone 4: Sampler Relinguished: Dale: Received By; Phone Resuk: 1 Yat O Ro DYN Fax Annult! D Ho Tima: REMARKS Date 10/24/07 Received By: Lab Staff Ralingulshed By Time: Delivered By: [Circle One) Cool Indust linklals) NO NO Sampler - UPS . Bus . Other:

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2478.





ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (575) 397-0397

Receiving Date: 12/04/07 Reporting Date: 12/05/07

Project Owner: MARBOB

Project Name: SCRATCH ST. COM #1 Project Location: MALJAMAR, NM

Analysis Date: 12/05/07 Sampling Date: 12/04/07

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: NF

Analyzed By: HM

		Cl
LAB NUMBER	SAMPLE ID	(mg/L)
H13842-1	MW1	512
H13842-2	MW2	42,400
<del></del>		
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent	Difference	< 0.1
FTHOD: Standard	d Methods	4500-CIB

METHOD: Standard Methods

ARDINAL LABORATORIES, INC.

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC.

ATTN: CLIFF BRUNSON P.O. BOX 805

HOBBS, NM 88241

FAX TO: (575) 397-0397

Receiving Date: 01/24/08 Reporting Date: 01/25/08

Project Owner: MARBOB

Project Name: SCRATCH ST. COM #1
Project Location: MALJAMAR, NM

Analysis Date: 01/25/08 Sampling Date: 01/24/08

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: KS

		CL
LAB NUMBER	SAMPLE ID	(mg/L)
H14155-1	MW1	35,200
H14155-2	MW2	44,400
		·
	,	
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percen	t Difference	< 0.1

Busto Septentos

METHOD: Standard Methods

Date

4500-CIB

H14155 BBC

# ARDIN

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

(305) 393-2326 FAX (305) 393-2478 (325) 673-7001		ANALYSIS PROVEST
	P.O. #:	ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #:	
Address: 1324 W. Marland	Company:	
City: Hobbs State: NM Zip: 33260	Attn:	
Phone #: 505-397-6388 Fax #: 505-397-0397	Address:	
Project #: Project Owner: /V/ Z v Dob	City:	
Project Name: Scratch St. Com, #1	State: Zip:	
Project Location: Majamay VIVI	Phone #:	
Sampler Name: PIWA KIAN	Fax #:	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	
WATE (C)		
Lab l.D. Sample l.D.	3	
(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER: ACIDBASE: ICE / COOL OTHER: THAT	. 1907
	1/24/08 1245	
H14155- MW1 -2 MW2 GIV	1/24/08 H30	
	1/27/08/1720	
PLEASE NOTE: Liability and Damages. Cardinal's kability and clean's exclusive remedy for any claim arising whether based in co- analyses. All claims including those for negligence and any other cause whatsoever shall be deamed waived unless made in writing.	ng and received by Cardinal within 30 days after completion of	of the applicable
service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interrup infiliation of services hereunder by Cardinal, regardless of whether such	ions, loss of use, or loss of profits incurred by client, its subsidi- cleim is besed upon any of the above stated reasons or other	Idiaries nyvise
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Religeratished by:  Date: Received By		
Time:	-	
Delivered By: (Circle One) Sample Co	ndition   CHECKED BY:	
Cool Inte	ct (Initials)	
Sampler · UPS - Bus - Other: [Yes [	Yes No	

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (575) 397-0397

Receiving Date: 04/15/08 Reporting Date: 04/15/08 Project Owner: MARBOB

Project Name: SCRATCH ST. COM#1

Project Location: MALIAMAR, NM

Analysis Date: 04/15/08 Sampling Date: 04/14/08

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: KS

	*	G
LAB NUMBER	SAMPLE ID	(mg/L)
H14646-1	MW1	14,600
H14646-2	MW2	48,800
<del></del>		
Quality Control		500
True Value QC		500
% Recovery	1	100
Relative Percent	Difforence	2.0

Busta Supulsas

METHOD: Standard Methods

04/15/08

4500-CFB

H14646 BBC



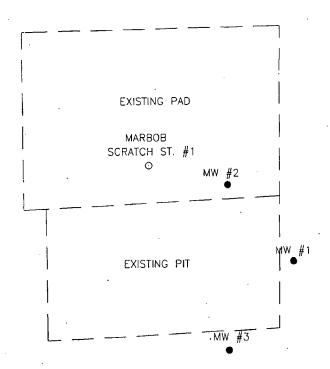
#### ARDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

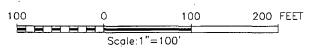
101 East Mariand, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79803 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7000

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Project #:	0 1:1 41	Project Owner		a	100	<u></u>		City: U						1		}	1	}		}	}		}	]	
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<sup>4</sup> Cardinal cannot accept verbal changes. Please fax written changes to 506-393-2478



WELL	COORDINATES	ELEVATIONS
MW #1	631744.7 N 759929.6 E	NATURAL GROUND - 3891.36' TOP OF PVC - 3894.31' TOP OF CONCRETE - 3891.47'
MW #2	631831.0 N 759853.6 E	NATURAL GROUND — 3893.55' TOP OF PVC — 3896.50' TOP OF CONCRETE — 3893.76'
MW #3	631645.9 N 759855.5 E	NATURAL GROUND — 3891.82' TOP OF PVC — 3894.78' TOP OF CONCRETE — 3892.05'





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

# BBC INTERNATIONAL, INC.

### SCRATCH STATE COM #1

Survey Date: 10/22/007	Sheet 1 of	1 Sheets
W.O. Number: 07.11.1397	Drawn By: L.A.	
Date: 10/26/07 DISK: CD#6	07111397	REV:8/7/08

#### VonGonten, Glenn, EMNRD

From:

Cliff P. Brunson [cbrunson@bbcinternational.com]

Sent:

Thursday, August 14, 2008 5:46 PM

To:

VonGonten, Glenn, EMNRD

Cc:

Price, Wayne, EMNRD; Ken Swinney; Jennifer Gilkey; Amy C. Ruth

Subject:

RE: Marbob Scratch State

Attachments: SCRATCH STATE COM #1-1.pdf; Activities Summarty-Scratch State Com 1.pdf; Lab Data-4-15-08.pdf; Lab Data 1-25-08.pdf; Lab Data 8-14-07.pdf; Lab Data 9-11-07.pdf; Lab data 9-27-07.pdf; Lab data 9-28-07.pdf; Lab data 10-1-07.pdf; Lab data 10-2-07.pdf; Lab data 10-23-07.pdf; Lab data 12-4-07.pdf; MW1 soil boring data-Sept. 10, 2007.pdf; MW2 soil boring data-

Sept. 27, 2007.pdf

Glenn,

Attached are several files per your request. One is an activities summary that will correlate the lab data and the site diagram. I have been out of town all week until this afternoon otherwise I would have sent it at the beginning of this week.

Cliff

Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by collect telephone call to (505) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address 1324 W. Marland Blvd. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397

E-mail: cbrunson@bbcinternational.com Web: www.bbcinternational.com

From: VonGonten, Glenn, EMNRD [mailto:Glenn.VonGonten@state.nm.us]

Sent: Thursday, August 14, 2008 4:58 PM

To: Cliff P. Brunson Cc: Price, Wayne, EMNRD

Subject: RE: Marbob Scratch State

· Cliff,

OCD still has not received the required information. If OCD does not receive it by 5:00 pm, August 15, 2008, your client will receive a Letter of Violation the following Monday. No more delays will be accepted.

Glenn von Gonten Senior Hydrologist Environmental Bureau Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505 505-476-3488 fax -476-3462 glenn vongonten@state.nm.us

From: Cliff P. Brunson [mailto:cbrunson@bbcinternational.com]

**Sent:** Monday, August 04, 2008 3:36 PM

**To:** VonGonten, Glenn, EMNRD **Cc:** Price, Wayne, EMNRD

Subject: RE: Marbob Scratch State

Glenn,

I am gathering the information to send to you. I apologize for the delay. Amy has been taking care of this site and she has both been on vacation and out for medical reasons for a while. It had put us even more short staffed, but she is back now and we are getting caught up. The information should be sent to you very soon. Appreciate your understanding.

Cliff -

From: VonGonten, Glenn, EMNRD [mailto:Glenn.VonGonten@state.nm.us]

**Sent:** Monday, August 04, 2008 3:01 PM **To:** cbrunson@bbcinternational.com

**Cc:** Price, Wayne, EMNRD **Subject:** Marbob Scratch State

Cliff,

Just a reminder, OCD needs copies of all analytical results for the Marbob Scratch State. If ground water has been impacted then OCD will require either a remediation plan or an abatement plan depending on whether ground water standards have been exceeded. Marbob was required to submit an amended C-141 when it received its analytical data, which makes it potentially out of compliance for the past 10 months. Please submit the data immediately.

Glenn von Gonten

Senior Hydrologist Environmental Bureau Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505 505-476-3488 fax -476-3462 glenn.vongonten@state.nm.us

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# State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised October 10, 2003

RECEI220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

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N • <b>C</b> C		M all	<del></del>	<u> </u>		OPERAT			al Report  Final Report		
Name of Co	mpany 1	TIAR DUB	LNERG	nm 88Z		Contact () Telephone N		<u>00 - 1560 -</u> 1997 - 6388	International		
Facility Nan	Address P.O Box 227 Artisia n.m 8821/ Telephone No. 505-397-6388  acility Name Scratch State Facility Type o:   well   Orilling P.t										
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Date: 8/2	24/07		Phone	748-3303	,						
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1625 N. French Dr., Hobbs, NM 88240 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico **Energy Minerals and Natural Resources**

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



March 12, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure	2
Is pit or below-grade tank covered by a "general plan"? Yes No	Ì

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

Closure of a pit or below-grade tank Operator: Marbob Energy Corporation Telephone: 505-748-3303 e-mail address: land2@marbob.com 1980' FNL & 660' FWL Address: PO Box 227, Artesia, NM 88211-0227 Facility or well name: Scratch State Com #1 API#: 30-025-36996 U/L or Otr/Otr SWNW Sec 24 T 18S R 33E County: Lea NAD: 1927 ☐ 1983 ☐ Surface Owner Federal ☐ State ☒ Private ☐ Indian ☐ Latitude Longitude Pit Below-grade tank Type: Drilling Production Disposal Volume: \_\_bbl Type of fluid: Construction material: Lined Unlined Double-walled, with leak detection? Yes If not, explain why not. Liner type: Synthetic 

☐ Thickness 12 mil Clay ☐ Volume Less than 50 feet (20 points Depth to ground water (vertical distance from bottom of pit to seasonal high (10 póints) 50 feet or more, but less than 100 feet water elevation of ground water.) 100 feet or more points ( 0 paints) (20 points) Wellhead protection area: (Less than 200 feet from a private domestic 0 booints No ( 0 paints water source, or less than 1000 feet from all other water sources.) (20 points) Less than 200 feet Distance to surface water: (horizontal distance to all wetlands, playas, 200 feet or more, but less than 1000 feet (10 points) irrigation canals, ditches, and perennial and ephemeral watercourses.) 1000 feet or more ( 0 points) 0 points Ranking Score (Total Points) 0 points If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location onsite of offsite of fisite, name of facility Sundance Disposal 3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No 🔲 Yes 🔲 If yes, show depth below ground surface\_ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations. \*Drilled 65' test hole at 865' FNL & 1650' FWL Sec 23-T18S-R33E. No water encountered INFO INCOLCUSIVE DUE TO PROCEDURE I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , a general permit , (attached) alternative OCD-approved plan . Date: June 6, 2007 Gerald Herrera Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations. Approval: Printed Name/Title Samples are to be obtained from pit floor area in each quadrant and analysis submitted to NMOCD prior to back-filling. (Chloride)

# Marbob Energy Corporation Attachment to OCD Form C-144

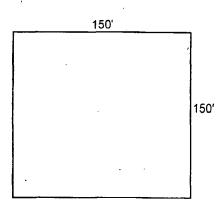
## Pit or Below-Grade Tank Registration or Closure

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Ρ,	T	C	osu	ге

## Scratch State Com #1

1980' FNL & 660' FWL Section 24 T-18S R-33E Lea County, New Mexico

(1) Facility diagram



(2) Disposal location:

Truck and haul cuttings to Sundance Disposal.

- (3) General description of remedial action:
  - a. Use caliche from road and pad to fill pit.
  - b. Use stock piled dirt to cover pit, reseed per landowner's specifications.
- (4) Groundwater encountered:

No

\* Drilled an 80' test hole on the Rhoid State #1 well at 330' FNL & 330' FWL Section 24 T-18S R-33E - Water leached into hole to 62'.
Well Record submitted previously.

(5) Soil sample:

SAMPLE PIT BOTTOM FOR CHLOPUS - REMOVE TO

ZSO PPIN

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87505

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101 Permit 3371 

## APPLICATION FOR PERMIT TO DRILL

Marbob energy	Operator Name and Address CORP	0GRID Kumber 14049
PO Box 227 Artesia, NM 8821		API Number 30-025-36996
Property Code 34465	Property Name SCRATCH STATE COM	Well 140. 001

#### Surface Location -

- [										
- }	UL or Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	Country
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#### **Proposed Pools**

CORBIN; MORROW, SOUTH (GAS) 75080

***************************************	Wark Type New Well	Well Type GAS	Cable/Rotary	Lesse Type State	Ground Level Elevation 3893
	Multiple	Proposed Depth Formation		Contractor	- Spud Date
	N		Morrow		12/15/2004

Proposed Casing and Cement Program

		Annahaman tanan dari Annahaman a				
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	300	300	0
Inti	12.25	8.625	32	4900	1400	0
Prod	7.875	5.5	17	13900	950	0

#### Casing/Cement Program: Additional Comments

Plan to drill 17 1/2 in hole w/fresh wtr. run 13 3/8 in 48 lb H-40 csg & set at 300 ft w/300 sx cmt, circ to surf; drill 12 1/4 in hole from 300-1850 ft w/fresh wtr w/no additives, drill 12 1/4 in hole from 1850-4900 ft w/brine wtr, run 8 5/8 in 32 lb Buttress csg & set at 4900 ft w/1400 sx cmt, circ to surf; drill 7 7/8 in hole 4900-13900 ft w/cut brine wtr, run 5 1/2 in 17 lb S-95/P110 csg & set at TD w/950 sx cmt, bring TOC 500 ft above all oil and gas bearing zones.

Proposed Blowout Prevention Program

	A. A. WARA		
Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	2000	2000	Cameron
Double Ram	5000	5000	Cameron

I hereby certify that the information given above is true		OIL CONSERVATION DIVISION			
and complete to the b	est of my knowledge and belief.	Electronically Approved By: Paul Kautz			
Electronically Signed	By: Diana Cannon	Title: Geologist			
Title: Production An	alyst	Approval Date: 12/09/2004   Expiration Date: 12/09/2005			
Date: 12/08/2004	Phone: 505-748-3303	Conditions of Approval: There are conditions. See Attached.			

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87505

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102 Permit 3371

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Name	Pool Code
30-025-36996	CORBIN;MORROW, SOUTH (GAS)	75080
Property Code 34465	Property Name SCRATCH STATE COM	Well No. 001
00RID No.	Operator Name	Elevation
14049	MARBOB ENERGY CORP	3893

## Surface And Bottom Hole Location

UL or Lot	Section	Township	Range	Lot Min	Feet From	N/S Line	Feet From	EAV Line	County
E	24	18S	33E	E	1980	N	660	W	Lea
Dedicated Acres		Joint or	Infill .	Consoli	dation Code		Order		

	· · · · · · · · · · · · · · · · · · ·	
Canada -	. ,	

## OPERATOR CERTIFICATION

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

Electronically Signed By: Diana Cannon

Title: Production Analyst

Date: 12/08/2004

## SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Surveyed By: Gary Eidson Date of Survey: 11/22/2004 Certificate Number: 12641

## Permit Conditions Of Approval C-101, Permit 3371

Operator: MARBOB ENERGY CORP , 14049
Well: SCRATCH STATE COM #001

OCD Reviewer	Condition .
PKAUTZ	Re-seeding mixture will must be approved or authorized by surface owner
PKAUTZ	Notice is to be given to the OCD prior to construction of the pit(s)
HEKAUIZ 1	Pit construction and closure must satisfy all requirements of O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank. Guidelines

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztoc, NM 87410 District IV

1220 S. St. Francis Dr., Santa Fc, NM 87505

io:ipam

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-]44
March 12, 2004

r drilling and production facilities, submit to

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

# Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes No

Operator: Marbob	Energy Corporation		Telephone: 505-748-3303	e-mail address: land2@marbob.com	1
Address: PO Box 2	227, Artesia, NM 88211-	0227			
Facility or well name:	Scratch State, #1	3 <i>D=</i> API#:_	025-36996 U/1. or Qtr/Qtr SWI	NW ,Sec 24 T 18S R 33E	
County: Lea	Latitude Com	Longitude	NAD: 1927 🗋 1983 🔲 Surfa	ice Owner Federal 🔲 State 🔀 Private 🗍 Indian	ū
Pit			Relow-grade tank		
Type: Drilling 🛛 Pro	duction 🔲 Disposal 🗍		Volume:bhl Type of fluid:	<u> </u>	
Workover 🔲 F	Emergency 🔲		Construction material:	<u></u>	
Lined 🖾 Unlined 🗌	•		Double-walled, with leak detection? Yes [	If not, explain why not.	
Liner type: Synthetic	🖄 Thickness 12 mil Clay 🗋 V	olume			
bbl	•				
Death to see a large	Consideration of the second		Less than 50 feet	(20 points)	
	(vertical distance from bottom of p	it to seasonal high	50 feet or more, but less than 100 feet	(10 points)	
water elevation of grou	und water.)		100 feet or more	( 0 points) 0 points	
Wellhead projection at	rea: (Less than 200 feet from a priv	aro domestic	Yes	(20 points)	
	nan 1000 feet from all other water so		No	( 0 points) <b>0 points</b>	
Distance to surface we	nter: (horizontal distance to all well	ande alexas	Less than 200 feet	(20 points)	
	ies, and perennial and ephemeral wa		200 feet or more, but less than 1000 feet	(10 points)	
	est mic pertinned and oppositions we	161 60 (4363.)	1000 feet or more	( 0 points) 0 points	
•			Ranking Score (Total Points)	0 points	
If this is a pit closur	c: (1) attach a diagram of the facili	y showing the pit's	relationship to other equipment and tunks. (2	) Indicate disposal location:	
onsite 🔲 offsite 🔲	If offsite, name of facility		. (3) Attach a general description of reme	dial action taken including remediation start date	and end
				h sample results. (5) Attach soil sample results a	
	cations and excavations.				•
I hereby certify that the been/will be constructed Date: December 8,	ted or closed according to NMOC	iplete to the best of D guidelines [], a	my knowledge and belief. I further certify t general permit . or an (attached) alterna	hat the above-described pit or believ-grade tar	nk bas
Printed Name/Title:	Melanie J. Parker / Lan	d Departmen	t Signature	( blance Anx les)	
Your certification and otherwise endanger puregulations.	NMOCD approval of this application in the environment. No	on/closure does not r does it relieve the	relieve the operator of limbility should the con- operator of its responsibility for compliance v	stents of the pit or tank contaminate ground water with any other federal, state, or local laws and/or	ror
Approval:	,	<del></del>			
Date:					
Printed Nam File_1	3 2004 PETROLEUM E		Signature Out 32	and a	•
-	PETROLEUM E	NGINEER			

Submit 3 Copies To Appropriate District	State of New	Mexico	Form C-103
Office District I	Energy, Minerals and N	Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		,	WELL API NO.
District II	OIL CONSERVATI	ON DIVISION	30-025-36996
1301 W. Grand Ave., Artesia, NM 88210			5. Indicate Type of Lease
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. 1	,	STATE X FEE
District IV	Santa Fe, NN	1 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM			
87505	CES AND REPORTS ON WE	110	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOS			7. Lease Name of Onit Agreement Name
DIFFERENT RESERVOIR. USE "APPLIC			SCRATCH STATEGOOM
PROPOSALS.)			8. Well Number 1
1. Type of Well: Oil Well	Gas Well 🔼 Other	<del> </del>	
2. Name of Operator	OD ENERGY CORRORATE	ANT.	9. OGRID Number
	BOB ENERGY CORPORATI	ON	14049 10. Pool name or Wildcat
•	BOX 227		<b>)</b>
	SIA NM 88211-0227		CORBIN; MORROW, SOUTH (GAS)
4. Well Location	1000		
Unit Letter E ::_	1980 feet from the NO	RTH line and 66	feet from the WEST line
Section 24	Township 185	Range 33E	NMPM LEA County NM
	11. Elevation (Show whether		
	3893' G	R	
Pit or Below-grade Tank Application or	Closure		
Pit type Depth to Groundwa	terDistance from nearest fro	sh water well Dist	ance from nearest surface water
Pit Liner Thickness: mil	Below-Grade Tank: Volume	hhls: Co	nstruction Material
12. Check A	ppropriate Box to Indicat	e Nature of Notice,	Report or Other Data
NOTICE OF IN	TENTION TO:	l etipe	SECHENT DEDORT OF
			SEQUENT REPORT OF:
PERFORM REMEDIAL WORK			ALTERING CASING
TEMPORARILY ABANDON   DIVINOR ALTER CASING		COMMENCE DRIE	
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT	DOBES THE REPORT OF THE PROPERTY OF THE PROPER
OTHER		OTHER SPITE	CSC/CMT
OTHER:	eted operations (Clearly state	OTHER: SPUE	OCSG/CMT
13. Describe proposed or comple		all pertinent details, and	D CSG/CMT X
13. Describe proposed or comple of starting any proposed wor		all pertinent details, and	OCSG/CMT
13. Describe proposed or comple		all pertinent details, and	D CSG/CMT X
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Energy, Minerals and Natural Resources   May 27, 2004	Submit 3 Copies To Appropriate District	State of New Me	exico		Form C-103.
DOIL CONSERVATION DIVISION 1200 South St. Francis Dr. Santa Fe, NM 87505 Santa Fe, NM 875	Office District I	Energy, Minerals and Nati	ıral Resources		May 27, 2004
120 South St. Francis Dr. South St.					
Doestall   1220 South St. Francis Dr.   STATE     EEE		OIL CONSERVATION	DIVISION $\frac{30}{5}$	-025-36996	
Santa Fe, NM 87505	District III	1220 South St. Fra	ncis Dr.		
1.   Construction Material   1.   Construct		Santa Fe, NM 8	7505		
SINDRY NOTICES AND REPORTS ON WELLS ON ON ON THE STIRE FORM PROPOSALS TO DRILLO BATO EXPONENCE AND SETURE FORM PROPOSALS TO DRILLO BATO EXPONENCE AND SERVOR SERVOR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)  1. Type of Well: Oil Well   Cas Well   Cother   S. Well Number   1	1220 S. St. Francis Dr., Santa Fe, NM	,	0.	otate on a ous bease	
DONOT USE THIS FORM FOR PROPOSALS TO DRILLO BY TO DEFENOR PLUG BACK TO A DIFFERENT RESPONDE USE "PROPOSALS")   1. Type of Well: Oil Well   Gas Well   Other     2. Name of Operator   P.O. BOX 227   10. Pool name or Wildcat     3. Address of Operator   P.O. BOX 227   10. Pool name or Wildcat     4. Well Location   Unit Letter   E   1980   Feet from the   NORTH   line and   660   Feet from the   WEST   line     Section   24   Township   188   Range   332   NMPM   LEA   County   NM     11. Elevation (Chow whether DR, RKB, RT, GR, etc.)   3893   CR     17. Bidew-Grade Tink Anglication I or Closure   Plus Anglication I or Complete Operations   Plus Anglication   Plus Anglication I or Complete Operations   Plus Anglication		ES AND REPORTS ON WELLS	5 7.	Lease Name or Unit A	Préement Name
PROPOSALS)   I. Type of Well: Oil Well   Gas Well   Other   S. Well Number   1	(DO NOT USE THIS FORM FOR PROPOSA	LS TO DRILL OR TO DEEPEN OR PL	UG BACK TO A		
1. Type of Well: Oil Well & Gas Well  Other		THON FOR PERMIT" (FORM C-101) F	150		
1.0049   1.00	1. Type of Well: Oil Well	as Well 🔲 Other	8.	Well Number 1	
3. Address of Operator   P O BOX 227	2. Name of Operator MARB	OB ENERGY CORPORATION			
Well Location	3. Address of Operator P O	BOX 227			
Unit Letter E : 1980 feet from the NORTH   line and 660   feet from the WEST   line   Section 24   Township 188 Range 33E NMPM LEA County NM      Ill. Elevation (Show whether DR, RKB, RT, GR, etc.)	ARTE	SIA, NM 88211-0227	co	RBIN; MORROW, So	OUTH (GAS)
Section 24 Township 18S Range 33E NMPM LEA County NM    Il. Elevation (Show whether DR, RKB, RT, GR, etc.)   3893' GR   3		1000			
11. Elevation (Show whether DR. RKB, RT, GR, etc.)   3893	Cint Better				
Substance from nearest surface water	Section 24			MPM LEA Count	y NM
Pit type Depth to Groundwater Distance from nearest fresh water well Distance from nearest surface water Pit Liner Thickness: mill Below-Grade Tank: Volume bblb; Construction Material 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON CAMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS PAND A PAND A COMMENCE DRILLING OPNS PAND A PAND A COMMENCE DRILLING OPNS PAND A PAND A COMMENCE DRILLING OPNS PAND A PAND A COMMENCE DRILLING OPNS PAND A PAND A COMMENCE DRILLING OPNS PAND A PAND A PAND A PAND A PAND A PAND A PAND A PAND A PAND A PAND A					
Distance from nearest surface water	Pit or Below-grade Tank Application Or		эK		
Pit Liner Thickness:   mil   Below-Grade Tank: Volume   bbls; Construction Material			vater well Distance	from nearest surface water	
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data   NOTICE OF INTENTION TO:   SUBSEQUENT REPORT OF:					
NOTICE OF INTENTION TO:  PERFORM REMEDIAL WORK   PLUG AND ABANDON   CHANGE PLANS   COMMENCE DRILLING OPNS   PAND A    PULL OR ALTER CASING   MULTIPLE COMPL   CASING/CEMENT JOB   PAND A    OTHER:   OTHER: INTIND CSG/CMT   MILTIPLE COMPL   CASING/CEMENT JOB   PAND A    13. 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.  05/09/05 @9:45 AM, DRLD 12 1/4" HOLE TO 4950'. RAN 116/JTS (4951:09') 8 5/8" CSG TO 4948'. CMTD 1ST STG W/400 SX INTERFIL—C, TAILED IN W/300 SX P+, PD @2:00 AM ON 05/10/05 CIRC 96 SX TO PIT. WOC 18 HRS, TSTD CSG TO 1500# F/30 MIN.  Thereby certify that the information 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 or closed according to NMOCD guidelines   a general permit   or an (attached) alternative OCD-approved plan   SIGNATURE   DATE 05/12/05  Type or print name DEBORA L. WILBOURN   E-mail address:  Secology@marbob.com   Telephone No 505-748-3303    PETHOLEUM ENGINEER   DATE MAY 1 7 2005					
PERFORM REMEDIAL WORK   PLUG AND ABANDON   CHANGE PLANS   COMMENCE DRILLING OPNS   PAND A   P	12. Check Ap	propriate Dox to indicate is		off of Other Data	
TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS PAND CASING/CEMENT JOB CASING/CEMENT JOB CASING/CEMENT JOB CASING/CEMENT JOB CASING/CEMENT JOB PAND A CASING/CEMENT JOB CASING/CEMENT JO		ENTION TO:	SUBSE	QUENT REPORT	OF:
PULL OR ALTER CASING   MULTIPLE COMPL   CASING/CEMENT JOB    OTHER: INTMD CSG/CMT   MULTIPLE COMPL   OTHER: INTMD CSG/CMT   MULTIPLE COMPLETION   OTHER CASING PROPOSED   OTHER C	_	<del></del>	i		
OTHER: INTMD CSG/CMT  13. 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.  05/09/05 @9:45 AM, DRLD 12 1/4" HOLE TO 4950'. RAN 116/JTS (4951-09') 8 5/8" CSG TO 4948'. CMTD 1ST STG W/400 SX INTERFIL—C, TAILED IN W/300 SX P+, PD @2:00 AM ON 05/10/05 CIRC 96 SX TO PIT. WOC 18 HRS, TSTD CSG TO 1500# F/30 MIN.  1 hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or belowgrade tank has been will be constructed or closed according to NMOCD guidelines Diageneral permit or an (attached) alternative OCD-approved plan Dissipation.  Signature Allowa Z. Milloura Title GEOTECH DATE 05/12/05  Type or print name DEBORA L. WILBOURN  E-mail address:  geology@marbob.com  Telephone No 505-748-3303  PETHOLEUM ENGINEER  MAY 1 7 2005	<del></del>	·	· · · · · · · · · · · · · · · · · · ·		A 🔲
13. 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.  05/09/05 @9:45 AM, DRLD 12 1/4" HOLE TO 4950'. RAN 116/JTS (4951-09') 8 5/8" CSG TO 4948'. CMTD 1ST STG W/400 SX INTERFIL—C, TAILED IN W/300 SX P+, PD @2:00 AM ON 05/10/05 CIRC 96 SX TO PIT. WOC 18 HRS, TSTD CSG TO 1500# F/30 MIN.  1 hereby certify that the information above is true and complete to the best of my knowledge and belief. I further tertify that any pit or belowgrade tank has been/will be constructed or closed according to NMOCD guidelines □, a general permit □ or an (attached) alternative OCD-approved plan □.  SIGNATURE Allows J. Julianus TITLE GEOTECH DATE 05/12/05  Type or print name DEBORA L. WILBOURN E-mail address: geology@marbob.com  Fer State Use Only  PETHOLEUM ENGINEER DATE MAY 1 7 2005	PULL OR ALTER CASING [_]	MULTIPLE COMPL	CASING/CEMENT JO	B 🔲 🐃	
13. 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.  05/09/05 @9:45 AM, DRLD 12 1/4" HOLE TO 4950'. RAN 116/JTS (4951-09') 8 5/8" CSG TO 4948'. CMTD 1ST STG W/400 SX INTERFIL—C, TAILED IN W/300 SX P+, PD @2:00 AM ON 05/10/05 CIRC 96 SX TO PIT. WOC 18 HRS, TSTD CSG TO 1500# F/30 MIN.  1 hereby certify that the information above is true and complete to the best of my knowledge and belief. I further tertify that any pit or belowgrade tank has been/will be constructed or closed according to NMOCD guidelines □, a general permit □ or an (attached) alternative OCD-approved plan □.  SIGNATURE Allows J. Julianus TITLE GEOTECH DATE 05/12/05  Type or print name DEBORA L. WILBOURN E-mail address: geology@marbob.com  Fer State Use Only  PETHOLEUM ENGINEER DATE MAY 1 7 2005	OTHER	$\Box$	OTHER: INTMD C	SG/CMT	<b>[7</b> ]
of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.  05/09/05 @9:45 AM, DRLD 12 1/4" HOLE TO 4950'. RAN 116/JTS (4951:09') 8 5/8" CSG TO 4948'. CMTD 1ST STG W/400 SX INTERFIL—C, TAILED IN W/300 SX P+, PD @2:00 AM ON 05/10/05 CIRC 96 SX TO PIT. WOC 18 HRS, TSTD CSG TO 1500# F/30 MIN.  1 hereby certify that the information above is true and complete to the best of my knowledge and belief. 1 further certify that any pit or belowgrade tank has been/will be constructed or closed according to NMOCD guidelines [], a general permit [] or an (attached) alternative OCD-approved plan [].  SIGNATURE Allows J. Hallows TITLE GEOTECH DATE 05/12/05  Type or print name DEBORA L. WILBOURN E-mail address: geology@marbob.com  Fer State Use Only  APPROVED BY MAY 1 7 2005	13. Describe proposed or comple	ted operations. (Clearly state all			
O5/09/05 @9:45 AM, DRLD 12 1/4" HOLE TO 4950'. RAN 116/JTS (4951.09') 8 5/8" CSG TO 4948'. CMTD 1ST STG W/400 SX INTERFIL-C, TAILED IN W/300 SX P+, PD @2:00 AM ON 05/10/05 CIRC 96 SX TO PIT. WOC 18 HRS, TSTD CSG TO 1500# F/30 MIN.  Thereby certify that the information 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 or closed according to NMOCD guidelines \( \text{\te	of starting any proposed work	k). SEE RULE 1103. For Multip	le Completions: Attach	wellbore diagram of pr	oposed completion
4948'. CMTD 1ST STG W/400 SX INTERFIL—C, TAILED IN W/300 SX P+, PD @2:00 AM ON 05/10/05 CIRC 96 SX TO PIT. WOC 18 HRS, TSTD CSG TO 1500# F/30 MIN.  Thereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or belowgrade tank has been/will be constructed or closed according to NMOCD guidelines a general permit or an (attached) alternative OCD-approved plan Signature  Signature Dillow J. Hillow Title GEOTECH DATE 05/12/05  Type or print name DEBORA L. WILBOURN E-mail address:  geology@marbob.com  Telephone No 505-748-3303  PETHOLEUM ENGINEER DATE MAY 1 7 2005	or recompletion.			•	
4948'. CMTD 1ST STG W/400 SX INTERFIL—C, TAILED IN W/300 SX P+, PD @2:00 AM ON 05/10/05 CIRC 96 SX TO PIT. WOC 18 HRS, TSTD CSG TO 1500# F/30 MIN.  Thereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or belowgrade tank has been/will be constructed or closed according to NMOCD guidelines a general permit or an (attached) alternative OCD-approved plan Signature  Signature Dillow J. Hillow Title GEOTECH DATE 05/12/05  Type or print name DEBORA L. WILBOURN E-mail address:  geology@marbob.com  Telephone No 505-748-3303  PETHOLEUM ENGINEER DATE MAY 1 7 2005	05/00/05 00 /5 14				
Thereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or belowgrade tank has been/will be constructed or closed according to NMOCD guidelines a general permit or an (attached) alternative OCD-approved plan SIGNATURE Author of Title GEOTECH DATE 05/12/05  Type or print name DEBORA L. WILBOURN  For State Use Only  APPROVED BY ATTILE FIROLEUM ENGINEER DATE MAY 1 7 2005	05/09/05 @9:45 AM, D	RLD 12 1/4" HOLE TO 49	950' RAN 116/JT	S (4951.09') 8 5	5/8" CSG TO
Thereby certify that the information 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 or closed according to NMOCD guidelines, a general permit or an (attached) alternative OCD-approved plan  SIGNATURE Author Z. Mulliam	CIRC 96 SY TO PIT W	W/4UU SX INTERFIL-U, T	TALLED IN W/300	SX P+, PD @2:00	AM ON 05/10/05
Thereby certify that the information above is true-and complete to the best of my knowledge and belief. I further certify that any pit or belowgrade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan .  SIGNATURE Actions A Milbourn TITLE GEOTECH DATE 05/12/05  Type or print name DEBORA L. WILBOURN E-mail address:  geology@marbob.com Telephone No 505-748-3303  FOR State Use Only  APPROVED BY ANY 1 7 2005	CIRC 70 3A 10 111. W	oc to mas, tath cag to	7 1300# F/30 MIN	•	
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Thereby certify that the information above is true-and complete to the best of my knowledge and belief. I further certify that any pit or belowgrade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan .  SIGNATURE Actions A Milbourn TITLE GEOTECH DATE 05/12/05  Type or print name DEBORA L. WILBOURN E-mail address:  geology@marbob.com Telephone No 505-748-3303  FOR State Use Only  APPROVED BY ANY 1 7 2005					
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grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan .  SIGNATURE Actions A full form TITLE GEOTECH DATE 05/12/05  Type or print name DEBORA L. WILBOURN E-mail address: geology@marbob.com  For State Use Only  APPROVED BY TITLE FETHOLEUM ENGINEER DATE MAY 1 7 2005				(a) 1400	234 N
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Type or print name DEBORA L. WILBOURN  For State Use Only  APPROVED BY  TITLE  E-mail address: geology@marbob.com  Telephone No. 505-748-3303  PETROLEUM ENGINEER  DATE MAY 1 7 2005	I hereby certify that the information ab	ove is true-and complete to the bosed according to NMOCD guidelines [	est of my knowledge and 🗔, a general permit 🔲 or ar	d belief. I further certify to (attached) alternative OCE	hat any pit or below- -approved plan .
Type or print name DEBORA L. WILBOURN  For State Use Only  APPROVED BY  TITLE  E-mail address: geology@marbob.com  Telephone No. 505-748-3303  PETROLEUM ENGINEER  DATE MAY 1 7 2005	SIGNATION Delina 9	Titalian TITLE	CEOTECU .	in a min	05/12/05
APPROVED BY TITLE PETHOLEUM ENGINEER DATE MAY 1 7 2005	SIGNATURE/ CONTRACTOR	MILE_	ODOTEGIL	DATE	03/12/03
APPROVED BY TITLE PETHOLEUM ENGINEER DATE MAY 1 7 2005	Type or print name DEBORA L. WI	LBOURN E-mail ac	Idress:	Telephone	No. 7/ 0 2202
APPROVED BY DATE MAI 1 / 2003			geologyemari		505-748-3303
	APPROVED BY	TITLE	PETROLEUM ENG	INEER	MAY 1 7 2005
		IIILE_		DATE	· · · · · · · · · · · · · · · · · · ·

Submit 3 Copies To Appropriate District Office	State of New M	exico	Form C-103
District 1	Energy, Minerals and Nati	ıral Resources	May 27, 2004
,1625 N. French Dr., Hobbs, NM 88240		WELL A	
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION	DIVISION 30-025-	
District III	1220 South St. Fra	5. Indicat	e Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 8	31	ATE K FEE
District IV 1220 S. St. Francis Dr., Santa Fe, NM	Salita FC, 19191 6	6. State C	oil & Gas Lease No.
87505		· ·	
SUNDRY NOTICE	CES AND REPORTS ON WELLS	7. Lease	Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOS			
DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)	A HON FOR PERMIT" (FORM C-101) F	0 01212011	STATE COM
	Gas Well 🔲 Other	8. Well N	lumber 1
2 Name of Operator		RECEIVED 9. OGRII	Number
MARI	BOB ENERGY CORPORATION	14049	
	BOX 227	- 2000	name or Wildcat
ART	ESIA, NM 88211-0227 O	CD-AUTCOLA CORBIN;	MORROW, SOUTH (GAS)
4. Well Location			,
	1980 feet from the NORT	H line and 660	feet from the WEST line
Section 24		ange 33E NMPM	
Section 24	11. Elevation (Show whether DR		EA County NM
	3893 GR	, NOD, KI, OK, etc.)	
Pit or Below-grade Tank Application or			The Control of the State of the
	terDistance from nearest fresh v	ostar well Distance from nec	rest surface water
· · · · · · ·	<del></del> · -		·
Pit Liner Thickness: mil	Below-Grade Tank: Volume	bbls; Construction Ma	
12. Check A	ppropriate Box to Indicate N	ature of Notice, Report or	Other Data
		1 01100501151	T DEDOOT OF
NOTICE OF IN			IT REPORT OF:
PERFORM REMEDIAL WORK 🔲	PLUG AND ABANDON 🔲	REMEDIAL WORK	☐ ALTERING CASING ☐
	CHANGE PLANS	COMMENCE DRILLING OPN	
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT JOB	
		OTHER TO CCC LOWE	
OTHER:		OTHER: TD CSG/CMT	X
13. Describe proposed or comple	eled operations. (Clearly state all	beninent details, and give pertir	ent dates, including estimated date
	K). SEE KULE 1103. For Mullip	le Completions: Attach welloo	re diagram of proposed completion
or recompletion.		,	•
TD WELL @8:45 AM ON 06/	22/05. DRLD 6 1/8" HOL	E TO 13710 RAN 323	JTS (13711.55') 4 1/2"
11.6# P-110 CSG TO 1370	8.90'. CMTD 1ST STG W/	650 SX PB SUPER H. PI	0.02:30 AM 06/24/05.
CIRC 175 SX TO PIT. CMT	D 2ND STG W/900 SX HLP	. TAILED IN W/200 SX	PR SUPER H. PD @9.45
AM 06/24/05, DID NOT CI	RC. RAN TEMP SURVEY -	TOC @3000' WOC 18 H	RS. TSTD CSG TO 1500#
F/30 MIN.			(3, 1515 050 10 1500)
.,			2000 100 100 100 100 100 100 100 100 100
		•	* 7022324
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•	•		10. V
			68784E1
I hereby certify that the information a grade tank has been/will be constructed or c	bove is true and complete to the be	est of my knowledge and belief	I further certify that any pit or below-
. grade tank has been/will be constructed or co		I, a general permit I or an fattache	a) alternative OCD-approved plan [
SIGNATURE Delegia L.	Velleguen TITLE	GEOTECH	DATE 06/30/05
SIGNATURE NOTHING OF TA			2711200730700
Type or print name DEBORA L. W	II.BOURN E-mail ad	dress:	Telephone No
For State Use Only		geology@marbob.co	140-50C
		PETDOL	
APPROVED BY:	TITLE_	PETROLEUM ENGIN	DATE
Conditions of Approval (if any):			JUL 1 1 2005
•			2005

# REFERENCE SHEET FOR UNDESIGNATED WELLS

	Fm	Pm	N	
17-21 W	XX	ХX	ХX	
17-21 C	XX	XX	ХX	

·				er eg e	1.	Date:	8/10/2005
paragraph			2. Type	of Well:			
			1	Oil:	Gas:	[XX]	
			3. Cou	ity: LE	A		
4. Operator: >> MARBOB EN	ERGY CORP .				APINUMB 30 -	025 - 3	36996
5. Address of Operator >> PO BOX 227	20044 0227						
>> ARTESIA NM  6. Lease name or Unit Agreement						7. Well N	umber
>> SCRATCH ST	20222222222222	·				# - 1	
8. Well Location  Unit Letter: E 1980  Section	feet from the N	line and 660 Range	feet from t	ne <u>W</u>	line		
9. Completion Date: 7/19/2005		11. Peris	131	•			Bottom 13308
10. Name of Producing Formation(s, MORROW		12. Open Hole (	Casing shoe		PBTÜ or 11	Open Hol	13710
13. C-123 Filed: Date Y N XX	15. Name of Pool R CORBIN;N	lequested: NORROW, SOUT	H (GAS)				75080
16. Remarks: EXTEND	W/2 DEDIC	CATED					
EATEND	WIZ DEDIC		<del></del>				_ <del></del>
TO BE COMPLETED BY DIST	RICT GEOLOGIST					Vicence vicence vicen	ool ID num
11	CORBIN;MORROW,	SOUTH (GAS)					75080
T 18 S, R	33 E					•	
SEC 23: SI SEC 24: W							
, SEC 24. W	12						
	·						
19. Advertised for HEARING:				20	. Case Num	ber	
						:	
21. Name of pool for which was advertised CORBIN;MO	RROW, SOUTH (GAS	S)				7	75080
22. Placed in Pool				23	. Ву о	der numbe	ſ

# WELL LOGS

	Pl number:	30-025-369	996					
	OGRID:		Operator:	MARBOB	ENERGY C	ORP		
			Property:	SCRATCH	STATE CO	M		# 1
		,		·				
surface	ULSTR:	E	24	Т	185	R	33E	
			. 1980	FNL	660	FWL		
							<u> </u>	•
BH Loc	ULSTR:	E	24	T	185	R	33E	
			1980	FNL	660	FWL		
Gro	ound Level:	3893	DF:	3909	KB:	3910		
	Datum:	KB			TD:	13710		
					Completic	on Date: (1)	7/19/2005	
	Land:	STATE		•	Date Log	s Received:	8/9/2005	**Late
						Due in: (2)	8/8/2005	
Con	fidential:	NO				Date out:		
		period: 90 Da	vs for State &	Fee. 1 Year 1	or federal			
		(1) is equal (	-					
	Logs	1,2,1	Depth in				<u> </u>	
DSN/SDL			200		Spectral De	nsity Dual S	paced Neutro	on
DLL/MSF			4938				erically Focu	
						<u></u>		
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			`					
		OCD TOPS	S					
		OCD TOP	<u> </u>					
Rustler					12180			<del></del>
Rustler			Strawn		12180 12553			
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			Strawn					
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Tansill			Strawn Atoka		12553			
Tansill Yates	Lm	1614	Strawn Atoka		12553			
Tansill Yates Delaware		1614	Strawn Atoka		12553			
Tansill Yates Delaware Delaware	Sd	1614	Strawn Atoka		12553			
Tansill Yates  Delaware Delaware Delaware	Sd on	1614	Strawn Atoka		12553			
Tansill Yates  Delaware Delaware Delaware Bell Canyo	Sd on anyon	1614	Strawn Atoka		12553			
Tansill Yates  Delaware Delaware Delaware Bell Canyo Cherry Ca	Sd on anyon anyon	1614	Strawn Atoka		12553			
Tansill Yates  Delaware Delaware Delaware Bell Canyo Cherry Ca Brushy Ca	Sd on anyon anyon	7430 8557	Strawn Atoka		12553			
Tansill Yates  Delaware Delaware Delaware Bell Canyo Cherry Ca Brushy Ca	Sd on anyon anyon ng	1614 5461 7430	Strawn Atoka		12553			
Tansill Yates  Delaware Delaware Delaware Bell Canyo Cherry Ca Brushy Ca	Sd on anyon anyon ng 1st Sd	7430 8557	Strawn Atoka		12553			
Tansill Yates  Delaware Delaware Delaware Bell Canyo Cherry Ca Brushy Ca	Sd on anyon anyon ng 1st Sd 2nd Carb	7430 8557 8732	Strawn Atoka Morrow		12553			
Tansill Yates  Delaware Delaware Delaware Bell Canyo Cherry Ca Brushy Ca	Sd on anyon anyon ng 1st Sd 2nd Carb 2nd Sd	7430 8557 8732 8977 9710	Strawn Atoka Morrow		12553			
Tansill Yates  Delaware Delaware Delaware Bell Canyo Cherry Ca Brushy Ca	Sd on anyon anyon ng 1st Sd 2nd Carb 2nd Sd 3rd Carb	7430 8557 8732 8977	Strawn Atoka Morrow		12553			

OPERATOR:

Marbob Energy Corp.

Scratch St\_#1 Lea County, NM WELL/LEASE: COUNTY:

E. 24-185-33e/ 1980/N & 660/W 30-025-36996

## STATE OF NEW MEXICO

## **DEVIATION REPORT**

	DE AIVI 1014 IV	LI OKI	
<u>Depth</u>	<b>Deviation</b>	<u>Depth</u>	<u>Deviation</u>
262	1/4	8309	1 1/4
403	1/2	8816	1 1/4
946	3/4	9317	2 3/4
1232	. 0	9381	0
1517	3/4	9505	2
1825	3/4	9635	1 3/4
2121	3/4	9984	2 1/4
2439	3/4	10109	2
2852	1 3/4	10471	2 3/4
2947	1 1/4	10566	3 1/4
3106	1 1/2	10677	2 2/3
3406	1 1/4	10740	2 1/2
3773	2	10804	1 1/2 2789 7020
3900	1 3/4	10867	1 (600
4186	1	10931	2 1/2 1 1/2 1 1/2 1 2/9 1 / AUG 55 1 7/2 AUG 55 1 7/
4472	1	10995	11/7 Alig sons
4917	0	11058	151/2 Bacaived
5419	1	11122	19/2 Holls &
5927	1	11376	1\7\2 609 48
6436	1 1/4	11421	1 /2
6912	2	11802	1/4 3592 428200
7008 7262	1 3/4	12275	1/2
7202 7643	2 .	12621	176-
7833	1 1/2	12951	3/4
. 300	1112	13378 1	3/4
		// . /	

The foregoing instrument was acknowledged before me on this 27th day of June, 2005 by M. Leroy Peterson, Executive Vice-President of Patriot Drilling, LLC.

My Commission Expires: 5/29/2009

Notary Public for Midland County, Texas

DORA H. DUARTE **NOTARY PUBLIC** 

	Submit To Appropria			S	tate of New M	<b>lexico</b>						Form C-105
۱	Fee Lease - 5 copies	Lease - 5 copies Energy, Minerals and Natural Resources						L	Revised June 10, 2003 WELL API NO.			
۱	District 1 1625 N. French Dr., F	lobos, NM 88240							30-025-36996			
l		ue, Artesia, NM 88210	1		Conservation			r	5. Indicate Type of Lease			
1	District III 1000 Rio Brazos Rd.,	Aztec, NM 87410	· ]		South St. Fr				STA	TE X	FEI	
l	District IV 1220 S. St. Francis Di	r., Santa Fe, NM 87505	1	2	anta Fe, NM	8/505			State Oil &	Gas Lease	No.	
	WELL C	OMPLETION O	R.RECC	MPLE	TION REPOR	RT AND	LOG					
	la. Type of Well: OIL WEI	LL GAS WELL	DRY		OTHER			-	7. Lease Name	or Unit Agre	ement N	ame
		VORK 🔲 DEEPEN		. 🗆 D	IFF.				COD A MC	ni omami	C (10)	
ŀ	2. Name of Operato	OVER	BAC	K K	ESVR. OTH	ER .		Ŧ	8. Well No.	CH STATI	E COM	,
	MARROR	ENERGY CORPO	RA'TTON							1		•
Ì	3. Address of Open		14111					7	9. Pool name or	Wildcat		
	PO BOX	227, ARTESI	A, NM	8821	1-0227				CORBIN	; MORRO	ow, s	OUTH (GAS)
Ī	4. Well Location											\$
	Unit Letter	<u>E : 198</u>	O Feet Fro	m The	NORTH	Line	and	66	0Fe	et From The 1	7//7	WEST Line
ļ	Section	24	Township		18S Ra		33E		1411 141 / 1.27	401	LÉA	
1	4/25/05	11. Date T.D. Reache 6/22/05	1 '	7/1	19/05				RKB, RT, GR,	1		Caşinghead
Ì	15. Total Depth	16. Plug Back	T.D.	17. If M	ultiple Compl. How	Many	18. Interval	ls	Rotary Tools	AUG A	Cable 7	Tools 6)
l	13710 <b>'</b>			Zone			Drilled By		이용 137	TOPON	ed	17)
I		val(s), of this completion 13308 MOR		tom, Nam	e .				0 2	0. Was Direct NO	tional Su	rvey Made
Ì	21. Type Electric at DLL, CSN	nd Other Logs Run							22. Was Well	Cored	.1	<del>\$\frac{3}{2}</del>
ł	23.			CAS	NG RECOR	D (Ren	ort all st	rin	os set in w	eji)		
t	CASING SIZE		.B./FT.		EPTH SET		E SIZE		CEMENTING		A	MOUNT PULLED
ļ	13 3/8				403'		1/2"	$\dashv$		C. CIRC		NONE
ł	8 5/8 7"	32 26			1948 <b>'</b>		1/4" 7/8"	-		CIRC CIRC		NONE NONE
ł	4 1/2				3709		1/8"	$\dashv$	1750 SX			NONE
Ī												
ŀ	SIZE	TOP	воттом		R RECORD SACKS CEMENT	SCREEN		25. SIZI		UBING REG		PACKER SET
ŀ	SILL	101	:		BACKS CEMENT	SCILLIN		SIZ	2 3/8"	13100		PACKER SEI
								_				·
ł	26. Perforation re	cord (interval, size, and	l number)				D, SHOT, I		CTURE, CE			
١	13170'	- 13308' (1	20 SHOT	rs)			'-1330	_	AMOUNT AN			
l				•				<u> </u>			, 21,011	
-		· ·										
ŀ	28 Date First Production	On Pro	duction Meth	nd (Flow	PRC ing, gas lift, pumpin	DUCT			Well Come	(D - 1 Ct.		
	7/30/05	1				9 - 042E UNU	·yye pump)			Prod. or Shu	u- <i>(11)</i>	
ŀ	Date of Test	Hours Tested	Choke Size	WING F	rod'n For	Oil - Bbl		Gas	- MCF	ROD Water - Bb	1.	Gas - Oil Ratio
١	7/31/05	24		1	est Period	59	İ		1399	3		)
ľ	Flow Tubing	Casing Pressure	Calculated 2	4- (	Dil - Bbl.	Gas -	MCF		ater - Bbl.	Oil Gr	avity - A	PI - (Corr.)
	Press.		Hour Rate	.						1	•	
ŀ	29. Disposition of C	ias (Sold, used for fuel,	vented, etc.)		<del> </del>			L	<del></del>	Test Witnesse	. A 19.0	
L	SOLD	,						• •		OWEN	•	ETT
ſ	30. List Attachment	••										
ł	BQGS , D 31 .Thereby certif	EVIATION SUR	VEY i shown on	both side	es of this form as t	rue and co	mplete to t	he b	est of my know	wledge and	belief	
	· //	1 m			nted			_	DOD			
Γ	Signature	markey	~ AC			J. BRI	GGS Title	<u> </u>	RODUCTIO	N ANALY	ST	Date 8/8/05
L	E-mail Address	PRODUCTI	ON@MAR	BOB.CO	)M	_						
			,							Ki	25	

## **INSTRUCTIONS**

This form is to be filed with the appropriate District Office of the Division 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 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN	CONFORMANCE WITH	GEOGRAPHICAL	SECTION OF STATE
111010111111101011111111111111111111111			

So	outheaster	n New Mexico	Northwestern New Mexico		
T. Anhy		T. Canyon	T. Ojo Alamo	T. Penn. "B"	
T. Salt		T. Strawn 12180 '	T. Kirtland-Fruitland	T. Penn. "C"	
B. Salt		T. Atoka 12252'	T. Pictured Cliffs	T. Penn. "D"	
T. Yates	3086'	T. Miss	T. Cliff House	T. Leadville	
T. 7 Rivers	3616'	T. Devonian	T. Menefee	T. Madison	
T. Queen		T. Silurian	T. Point Lookout	T. Elbert	
T. Grayburg		T. Montoya	T. Mancos	T. McCracken	
T. San Andres	5110'	T. Simpson	T. Gallup	T. Ignacio Otzte	
T. Glorieta		T. McKee	Base Greenhorn	T. Granite	
T. Paddock		T. Ellenburger	T. Dakota	T	
T. Blinebry		T. Gr. Wash	T. Morrison	T	
T.Tubb		T. Delaware Sand	T.Todilto	T	
T. Drinkard		T. Bone Springs 9262	T. Entrada	T	
T. Abo		T. RUSTLER 1614'	T. Wingate	Т.	
T. Wolfcamp		T. BRUNSON SAND 12717'	T. Chinle	T.	
Т. Репп		T. MORROW 13108'	T. Permian	T	
T. Cisco (Bough C)		T. CHESTER 13542'	T. Penn "A"	T.	

			SANDS OR ZONI	3
No. 1, from	to	. No. 3, from	to	
No. 2, from	to	. No. 4, from	to	
	IMPORTAN	IT WATER SANDS		•
nclude data on rate of w	vater inflow and elevation to which v	vater rose in hole.		
No. 1, from	to	feet	• • • • • • • • • • • • • • • • • • • •	
No. 2, from	toto	feet	• • • • • • • • • • • • • • • • • • • •	
No. 3, from	to	feet	••••	
	TITLL COLLINGOD			

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	То	Thickness In Feet	Lithology	٠	From	То	Thickness In Feet Lithology	
					•			
					!			
		,						
<u> </u>								

District.I

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy, Minerals & Natural Resources

Form C-104 Revised June 10, 2003

District II

1301 W. Grand Avenue, Artesia, NM 88210

Oil Conservation Division

Submit to Appropriate District Office

ORIGINAL SIGNED BY PAUL F. KAUTZ

PETROLEUM ENGINEEP

5 Copies 1000 Rio Brazos Rd., Aztec, NM 87410 1220 South St. Francis Dr. Santa Fe, NM 87505 1220 S. St. Francis Dr., Santa Fe, NM 87505 ☐ AMENDED REPORT REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT Operator name and Address
MARBOB ENERGY CORPORATION WELT HAS BEEN MEACED IN THE POSSESSON FOR Filing Code/ Effective Date
PO BOX 227

OBSIGNATED BELOW. IF YOU DO NOT COMPUT NW

NOTHWATHIS OFFICE OF THE POSSESSON OF FILING CODE
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NOTHWATHIS OFFICE OF THE POSSESSON OF THE POSSESS <sup>4</sup> API Number Pool Name Pool Code CORBIN; MORROW, SOUTH (GAS) 30-025-36996 75080 <sup>a</sup> Property Name <sup>7</sup> Property Code Well Number SCRATCH STATE COM 34465 II. 10 Surface Location Ul or lot no. | Section | Township Lo1.ldn Feet from the North/South Line Feet from the East/West line County EDBY Lea 185 1980 NORTH 660 WEST 11 Bottom Hole Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line | Feet from the East/West line 12 Lse Code 13 Producing Mathed Gas Connection 15 C-129 Permit Number 16 C-129 Effective Date 17 C-129 Expiration Date 7/30705 S III. Oil and Gas Transporters <sup>18</sup> Transporter 10 POD 21 O/G Transporter Name POD ULSTR Location OGRID and Address and Description TANK BATTERY BP AMERICA PROD CO 209700 0 E-24-T185 1838 1920 501 WESTLAKE, STE 4.550 HOUSTON, TX 77079 SAME N DUKE ENERGY FIELD SVCS 36785 PO BOX 50020 MIDLAND, TX 79710-0020 IV. Produced Water 24 POD ULSTR Location and Description V. Well Completion Data 25 Spud Date 20 PBTD Ready Date 29 Perforations 30 DHC, MC 13710' 4/25/05 7/19/05 35841 13170'-13308 32 Casing & Tubing Size 33 Depth Set 34 Sacks Cement 31 Hole Size 17 1/2" 475 SX, CIRC 13 3/8" 403 12 1/4" 8 5/8" 49481 700 SX, CIRC 7" 7 7/8" 4000' 350 SX, CIRC 4 1/2" 6 1/8" 13709' 1750 SX, CIRC 2\_3/8" 13100' VI. Well Test Data 39 Tbg. Pressure 35 Date New Oil 36 Gas Delivery Date 37 Test Date Test Length 40 Csg. Pressure 7/30/05 7/31/05 7/30/05 24 HRS 41 Choke Size 44 Gas 45 AOF 42 Oil Water 46 Test Method 59 1399 47 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and OIL CONSERVATION DIVISION

Approved by:

Approval Date: AUG 1 8 2005

edge and belief.

PRODUCTION ANALYST

PRODUCTION@MARBOB..COM

(505) 748-3303

complete

Signatur Printed name:

E-mail Address:

8/8/05

Date:

he best of m

30-075 36996

## \*\*\*\*\* CHART SCANNER WELL TEST DATA \*\*\*\*

COMPANY:

CLIENT:

GAUGE NUMBER:

WELL NAME:

WELL NUMBER:

TEST NUMBER:

LOCATION:

TEST OFERATOR: COMMENTS:

MARBOB ENERGY RICK ALVARADO

576

SCRATCH STATE COM

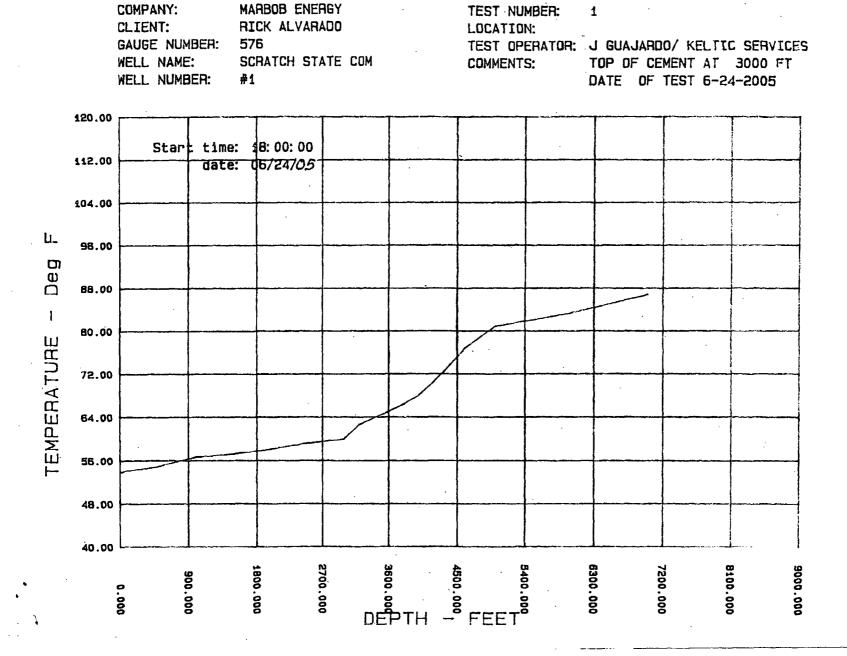
#1

J GUAJARDO/ KELTIC SERVICES TOP OF CEMENT AT 3000 FT DATE OF TEST 6-24-2005

DATE: 06/24/05

GAUGE S/N: 576

REAL TIME	DELTA TIME HRS	TEMPERATURE Deg F	DEPTH FEET	FLOW RATE BBLS/DAY		COMMENTS
18:08:24	0.140	53.92	0.00		· • • • • • • • • • • • • • • • • • • •	
18:13:59	0.233	54.89	500.00			
18:19:29	0.325	56.71	1000.00			
18:22:54	0.382	57.26	1500.00			
18:25:04	0.418	58.15	2000.00			
18:28:28	0.475	59.23	2500.00			
18:32:10	0.536	59.98	3000.00		TOP OF	F CEMENT
18:36:42	0.612	62.62	3200.00			
18:39:41	0.662	63.78	3400.00			
18:42:48	0.714	64.97	3600,00			
18:45:26	0.757	66.36	3800.00			
18:48:25	0.807	68.01	4000.00			
18:51:33	0.859	70.58	4200.00			
18:54:27	0.908	73.52	4400.00			
18:57:38	0.961	76.77	4600.00	•		
19:00:39	1.011	78.79	4800.00			
19:03:10	1.053	80.84	5000.00			
19:05:49	1.097	83.34	6000.00			•
19-13-10	1 220	78 A8	7000 00			



District | 1625 N French Dr., Hobbs, NM 88240 District | 11 1301 W Grand Avenue, Ariesia, NM 88210 District | 111 1000 Rio Brazos Road, Aztec, NM 87410 District | 1V

1220 S St Francis Dr , Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-144 June 1, 2004

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

# Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes \( \subseteq No \subseteq \)

Type of action Registration of a pit	or below-grade tank [ Closure of a pit or below-g	grade tank
	ne <u>505-748-33.03</u> e-mail address <u>C</u>	villile @marbob. com
Address P.O BOX 227 Hitesia Nim	88211-0227	
Facility or well name Seratch State Com #1 API#	30-025-36996 U/L or Qir/Qir Stup	VW Sec 24 T'185 R 33E
	Longitude	
Surface Owner Federal 🔲 State 🔀 Private 🔲 Indian 🔲		
Pit	Below-grade tank	
Type Drilling 🗷 Production 🖸 Disposal 🔲	Volumebbl Type of fluid	
Workover	Construction material	
Lined X Unlined	Double-walled, with leak detection? Yes If r	not, explain why not
Liner type Synthetic Thickness 12 mil Clay		•
Pit Volumebbl		
	Less than 50 lect	(20 points)
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points)
high water elevation of ground water )	100 feet or more	( 0 points)
	Yes	(20
Wellhead protection area (Less than 200 feet from a private domestic		(20 points)
water source, or less than 1000 feet from all other water sources)	(No.)	( 0 points)
Distance to our force water (horsestal distance to all wallends allowed	Less than 200 feet	(20 points)
Distance to surface water (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points)
irrigation canals, ditches, and perennial and ephemeral watercourses)	1000 feet or more	( 0 points)
	Ranking Score (Total Points)	20
	24.	
f this is a pit closure: (1) Attach a diagram of the facility showing the pit		
our are burying in place) onsite 🔀 offsite 🔲 If offsite, name of facility_		
emediation start date and end date (4) Groundwater encountered No 🔲		ft and attach sample results
5) Attach soil sample results and a diagram of sample locations and excava	itions	
Additional Comments As per Chris William	ns. Pit Sampling delin	caken of Chloudes and
removed Pit material Liner	ms. Pit Sampling, delin	botton of viscour At
for backfilling.		
. 0	1	
(leura 9128/	010/11	
~~~		
I hereby certify that the information above is true and complete to the best has been/will be constructed or closed according to NMOCD guideline	of my knowledge and belief I further certify that	the above-described pit or below-grade tank
was been and be constitution of closed according to MAOCD Entreme	es [], a general permit [], or an (attached) altern	ative OCD-approved plan .
Date 4-21-07	$II \cap II$	/ /
Printed Name/Tille Rand French   Biologist	Signature fame fress	h
Your certification and NMOCD approval of this application/closure does r	not relieve the operator of liability should the content	s of the nit or tank contaminate ground water or
otherwise endanger public health or the environment. Nor does it relieve t	the operator of its responsibility for compliance with	any other federal, state, or local laws and/or
regulations		·
Approval	11-1100	
Printed Name/Title CHRIS WILLIAMS / DIST. SUP	Signature fur William	nu Date 9/28/07
	•	7 . / (

District 1
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

# RECEI220 South St. Francis Dr.

Santa Fe, NM 87505

Release Not rication and Corrective Action							
	OPERAT	OR	lnitia	al Report 🔲 Final Report			
Name of Company MARAGE ENERGY CO.P.			on - BBC				
Address P.O. Box 227 Artesia nm 88211			<u> 197 - 6388</u>				
Facility Name Scrodel State	Facility Type	Oil Well	1 Drilling 1	<i>P.F.</i>			
Surface Owner State OF A.M Mineral Owner	STATE		Lease N	lo.			
	N OF REL	EASE					
Unit Letter   Section   Township   Range   Feet from the   Nort	h/South Line	Feet from the	East/West Line	County			
24 185 33E 1980 /	Yorth	660	WEST	LEA.			
Latitude	Longitude		<del>/</del> •				
	OF RELE						
Type of Release P. + Lines			Volume R				
Source of Release 7.7 Was Immediate Notice Given?	ICYES To V		e g   Date and I	Hour of Discovery 8/20/07			
Yes No Not Required	1 ,		- Olyme :	Wayne Pice-email			
By Whom? RANd French & Cliff Brunson	Date and Ho	our 8/20/0	he Watercourse.	n			
Was a Watercourse Reached?  Yes □ No	If YES, Vol	ume Impacting t	he Watercourse.	-			
·		Ukno	WM				
If a Watercourse was Impacted, Describe Fully.*							
Do Not Know the extent of In							
Describe Cause of Problem and Remedial Action Taken.*  Compremised Pit - was IN the process of	fadig-	n-haut, a	long with	delinealing			
Chbrides, Forty feet Below greenel surface	" wet so	ik and i	exiter uns	encounteral.			
Describe Area Affected and Cleanup Action Taken.*		· · ·	. /	1 / /			
Describe Area Affected and Cleanup Action Taken.*  Unknown At this Sime Most of the t	et mater	teel has	been 100	wice: The breek			
Side of Pit Lins fee of chloudes	s & 121 f	ret.					
I hereby certify that the information given above is true and complete to							
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t							
should their operations have failed to adequately investigate and remedia							
or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local Taws and/or regulations.	does not relieve	the operator of i	esponsibility for co	ompliance with any other			
rederal. State, of local laws and/of regulations.		OIL CON	SERVATION	DIVISION			
		OIL CON	BERVATION	DIVISION			
Signature: Hard Julian							
Printed Name: Rand Frincert	Approved by I	District Supervise	or:				
Title: Wildlife Biologist	Approval Date	:	Expiration 1	Date:			
E-mail Address: Wildlife Q. MARING Cam	Conditions of a	Approval:		Attrohad 🗖			
Date: \$\\\ 24\\0.7\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		<b>.</b>		Attached 🗌			
* Attach Additional Sheets If Necessary	<u> </u>			<u> </u>			

# New Mexico Office of the State Engineer POD Reports and Downloads

Township: 18S Range: 34E Sections:
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) C Non-Domestic C Domestic
ROD / Surface Data Report Avg Depth to Water Report Water Column Report
Glear Form iWATIERS Menu Help

#### AVERAGE DEPTH OF WATER REPORT 10/17/2007

1							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	x	Y	Wells	Min	Max	Avg
L	18S	34E 01				5	100	115	107
L	18S	34E 02				2	102	102	102
L	18S	34E 03				3	60	100	87
L	18S	34E 05	•			' 1	105	105	105
$\mathbf{L}$	18S	34E 06				2	110	150	130
L	·18S	34E 07				2	15	150	83
L	18S	34E 08				, 2	145	150	148
L	185	34E 10		·		3	110	110	110
${f L}$	18S'	34E 11		•		1	110	110	110
L	185	34E 12				. 4	76	100	92
L	18S	34E 13				1	96	96	96
L	18S	34E 14				3	100	110	103
L	18S	34E 15				1	110	110	110
L	185	34E 16				2	105	110	108
L	185	34E 18				2	125	125	125
Ļ	18S	34E 19			`	1	105	105	105
L	18S	34E 20				2	120	130	125
L	18S	34E 25				1	117	117	117
L.	18S	34E 27				1	112	112	112
L.	18S	34E 35				. 2	105	130	118

Record Count: 41

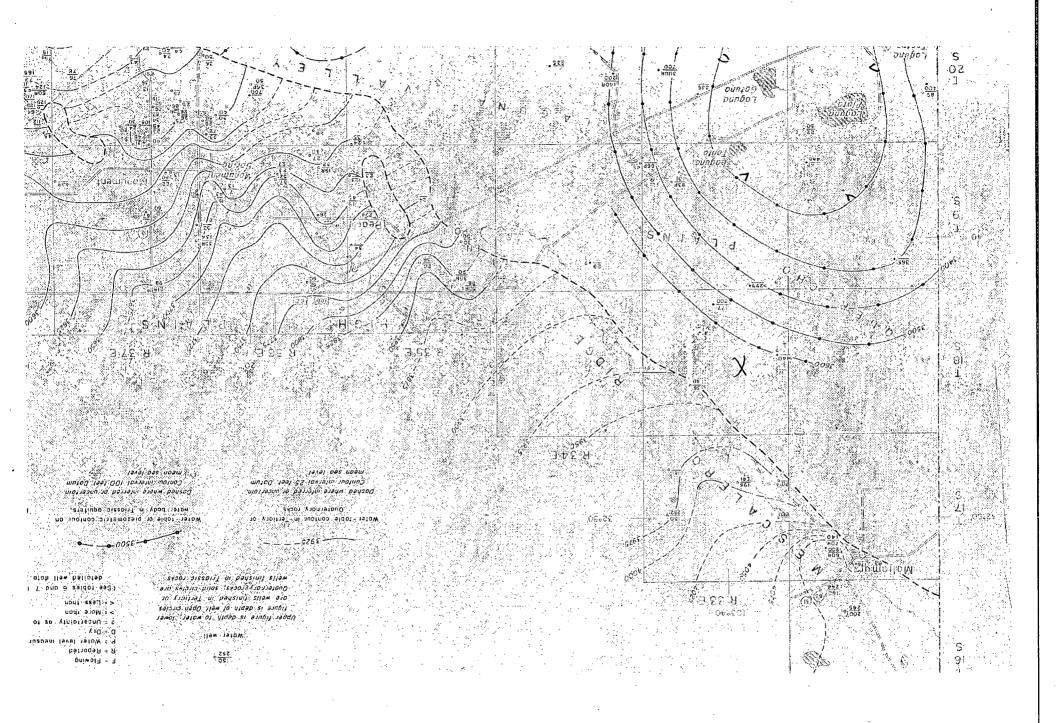
# New Mexico Office of the State Engineer POD Reports and Downloads

Township: 183 Range: 34E Sections:
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) C Non-Domestic C Domestic
ROD / Surface Data Report Avg Depth to Water Report  Water Column Report
Clear Form : WATIERS Menu Help

## AVERAGE DEPTH OF WATER REPORT 10/17/2007

							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	x	Y	Wells	Min	Max	Avg
CP	185	33E 13				1	60	60	60
CP	18S	33E 24				1	195	195	195
L	18S	33E 08				1	100	100	100
L	185	33E 12				2	130	150	140
L	18S	33E 17		*		1	85	85	85
L	18S	33E 30				2	35	35	35

Record Count: 8



# AP - 094

# GENERAL CORRESPONDENCE

2008 - 2007