# **AP-2**

# Monitoring Well Plugging Reports

4/22/13



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS. NM 88241-0805 E-MAIL: cbrunson@bbcinternational.com

April 22, 2013

Jim Griswold Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

# RE: Westgate Subdivision/Grimes Battery & Tasker Road (AP-2) in Unit Letter K of Section 28, Township 18 South, Range 38 East NMPM in Hobbs, New Mexico

Dear Mr. Griswold:

In response to your letter of February 12, 2013 to Shell Exploration & Production Company (Shell) closing AP-2 and giving the approval to plug and abandon the eleven remaining monitoring wells, I am pleased to include the following information pertaining to the plugging activities on behalf of Shell.

BBC International, Inc. submitted the request to plug and abandon the eleven monitoring wells to the District II office in Roswell, NM of the Office of the State Engineer of New Mexico on March 11, 2013. The well plugging plan of operations was approved by Catherine Goetz, Water Resource Specialist, of the Office of the State Engineer on March 14, 2013. A copy of the approved plan is included in this report.

The eleven monitoring wells were plugged and abandoned in accordance with the approved plan of operations on March 18<sup>th</sup> and 19<sup>th</sup>, 2013. Pictures of the plugged wells are included in this report.

On April 5, 2013, the plugging record forms were submitted to Office of the State Engineer in accordance with 19.27.4 NMAC. Copies of the plugging record forms are included in this report.

With this submission of the well plugging and abandonment plan and records, this meets the last requirement of your closure letter of February 12, 2013 and no further action is required.

Sincerely,

liff P. Tuman

Cliff P. Brunson President

cc: Geoff Leking, OCD District I Office, Hobbs Lynn Walker, Shell Exploration & Production Company, Houston



#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER ROSWELL

Scott A. Verhines, P.E. State Engineer

DISTRICT II

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

March 14, 2013

Shell Exploration and Production 200 N. Dairy Ashford Houston, Texas 77079

#### RE: Well Plugging Plan of Operations for Eleven Monitoring Wells, City of Hobbs, NM

Greetings:

Enclosed are your copies of the approved Well Plugging Plan for the above referenced eleven monitoring wells. The proposed method of operations for the subject wells is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted August 31, 2005 by the State Engineer.

Sincerely,

57.2 Catherine Goetz

Water Resource Specialist District II Office of the State Engineer

Enclosures

cc: BBC International





NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging.

I. FILING FEE: There is no filing fee for this form.

#### II. GENERAL / WELL OWNERSHIP:

Existing Office of the State Engineer POD Number		
Name of well owner: Shell Exploration	+ Production Company	1
Mailing address: 200 N. Dairy Ashfo	rd Rd.	
City: Houston	State: Texas	Zip code: <u>17079</u>
Phone number: (832) 337-2206	E-mail: <u>/yww.w</u>	Alkere Shell. com

#### III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: John white	/ white Drilling Co.
New Mexico Well Driller License No.: UD - 1456	Expiration Date:

IV. W	ELL INFORMATION:									A
Note:	A copy of the existing We	ell Record for t	he well to b	be plugged	should be	e attache	d to this p	lan.		الم ال 121 -
1)	GPS Well Location:	Latitude: Longitude:		deg, deg,	42		52.8	sec sec, N.	ی AD 83	12 - 11 - 17
2)	Reason(s) for plugging					-	12020	given	59+1	12

- 3) Was well used for any type of monitoring program? Yes If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.
- 4) Does the well tap brackish, saline, or otherwise poor quality water? <u>No</u> If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: 72 feet below land surface / feet above land surface (circle one)

6) Depth of the well: <u>80</u> feet

Well Plugging Plan Version: December, 2011 Page 1 of 5

15

7)	Inside diameter of innermost casing: $\frac{4.026}{1000}$ inches.
8)	Casing material:Schedule 40 PVC
9)	The well was constructed with: an open-hole production interval, state the open interval:
	a well screen or perforated pipe, state the screened interval(s): <u>10 feet w water</u> , 5 feet above
10)	What annular interval surrounding the artesian casing of this well is cement-grouted? 50-55 feet
11)	Was the well built with surface casing? <u>No</u> If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? If yes, please describe:

12) Has all pumping equipment and associated piping been removed from the well?  $\underline{\forall e_{S}}$  If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

#### V. DESCRIPTION OF PLANNED WELL PLUGGING:

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal.

1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology

	proposed for the well: <u>pump mix - pump with fremie pipe from</u>	- 60+	tom
	to top of well		no co
			P
		111	
	Will well head be cut-off below land surface after plugging? Yes	لي . م <u>ورد .</u>	ī.
		5	
. PL	UGGING AND SEALING MATERIALS:	J	4
ote: 7	The plugging of a well that taps poor quality water may require the use of a specialty cement or sp	eciality s	ealant
	For plugging intervals that employ cement grout, complete and attach Table A.		ت ٦٢
	For plugging intervals that will employ approved non-cement based sealant(s), complete and atta	ach Tabl	e B.
	Theoretical volume of grout required to plug the well to land surface: $52.24$ gAl.		
	Type of Cement proposed: Type 2 Portand cement with 5% quick	gel	
	Proposed cement grout mix: gallons of water per 94 pound sack of Portland	cement.	
	Will the grout be: batch-mixed and delivered to the site		
	mixed on site		

Well Plugging Plan Version: December, 2011 Page 2 of 5

Additional notes	and calculations:	

Monitor wells were installed at An oilfide remediation site overseen by the New Mexico Oil Conservation Division in Santa Fe. Crude oil had been detected on the water table, but it has been removed and closure and plugging of the monitor wells has been granted by oil Conservation Division on February 12, 2013. See attached letter.

#### VIII. SIGNATURE:

I, <u>Cliff P. Brunson</u>, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Chip P. Brunson 3/11/13

Signature of Applicant

day of MARCH

Date

#### IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

Approved subject to the attached conditions. Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this \_

Scott A. Verhines, State Engineer - for Andy Morley By: CHATHER J. GAL

Well Plugging Plan Version: December, 2011 Page 3 of 5

2013

# TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

- A91	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			0.0
Bottom of proposed interval of grout placement (ft bgl)			80.0
Theoretical volume of grout required per interval (gallons)			52.24941.
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			6921
Mixed on-site or batch- mixed and delivered?			onsite
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			STATE
Additive 2 percent by dry weight relative to cement			Enutra 1.2 5 3

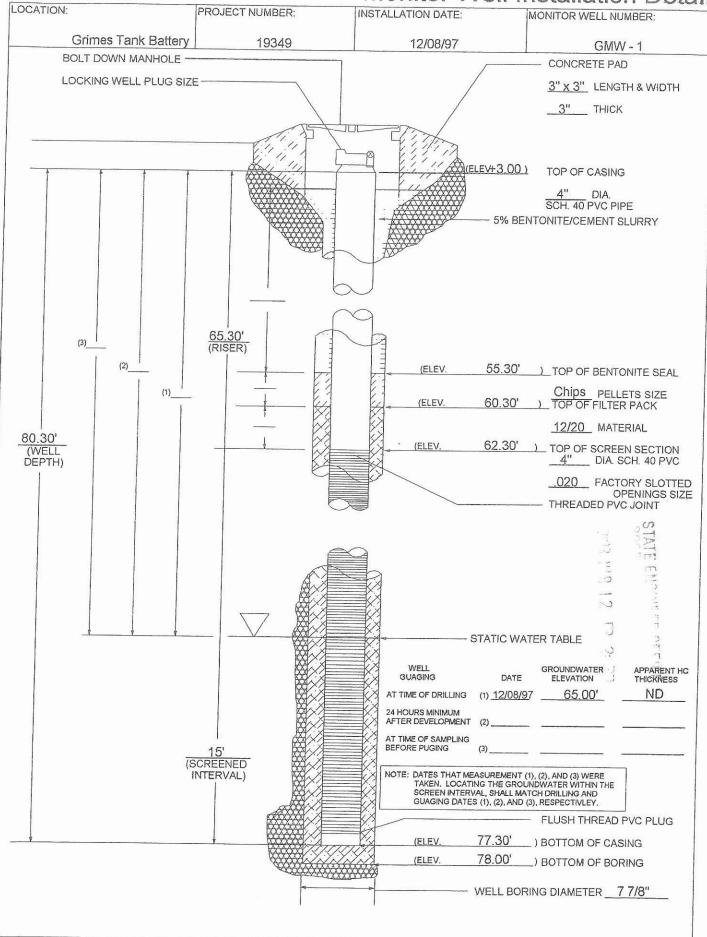
Well Plugging Plan Version: December, 2011 Page 4 of 5

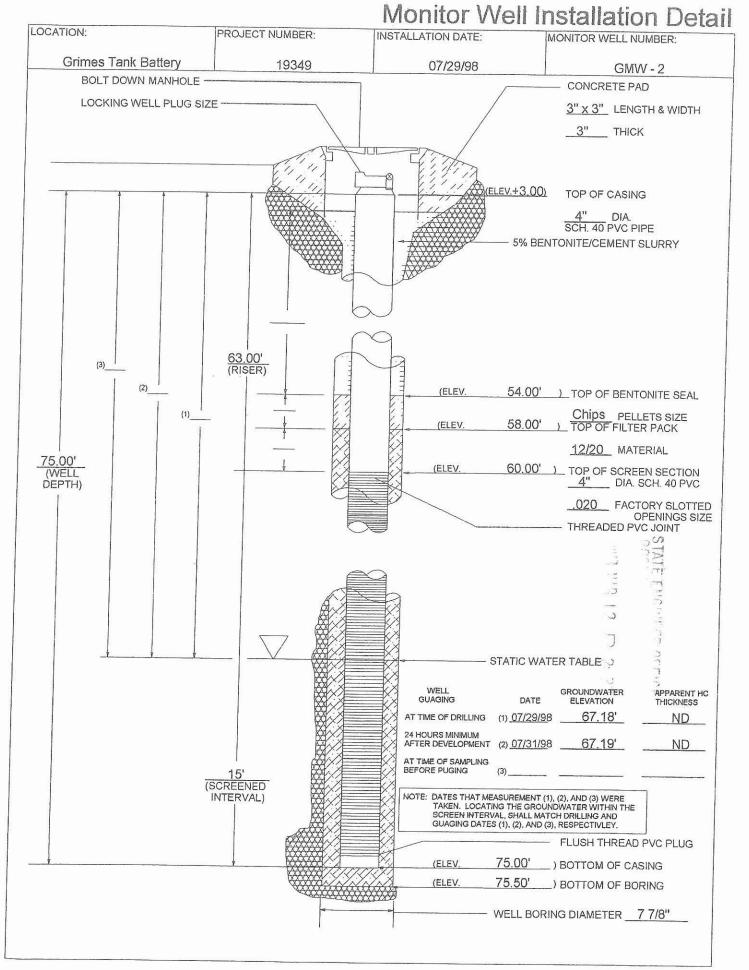
# TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

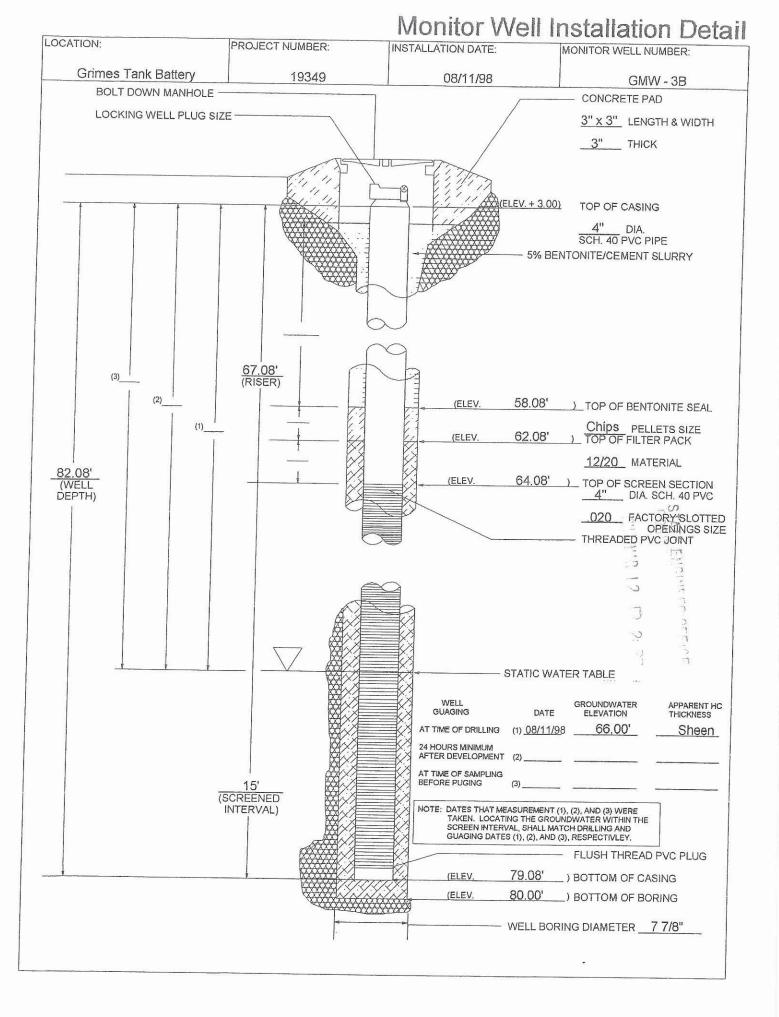
Well Plugging Plan Version: December, 2011 Page 5 of 5

### Monitor Well Installation Detail

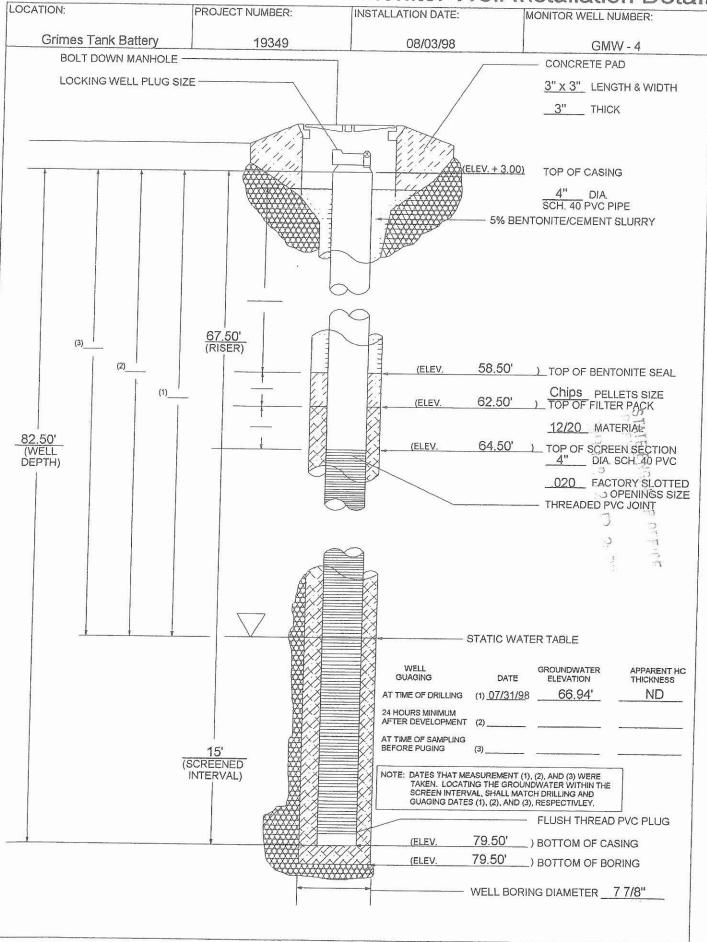




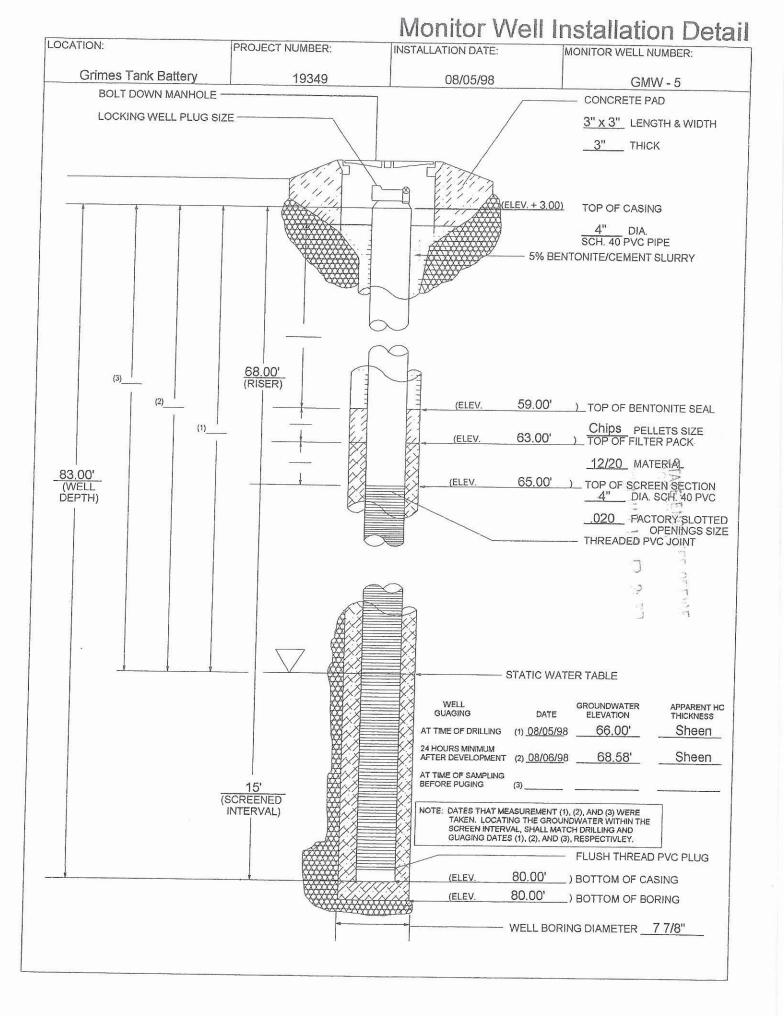
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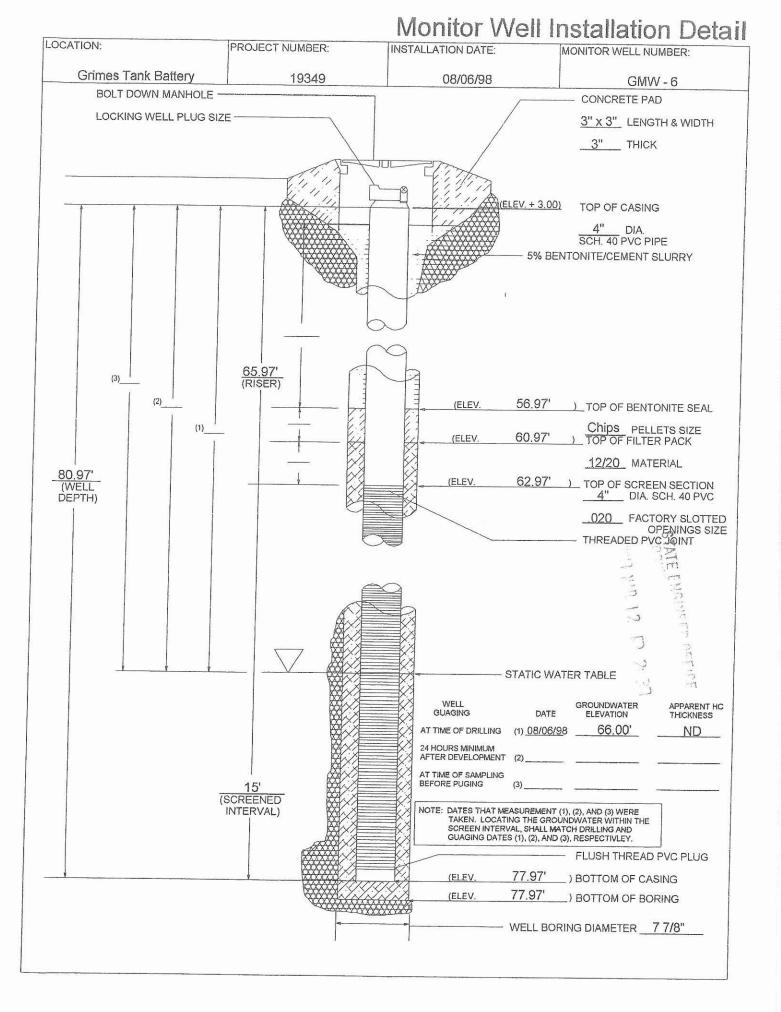


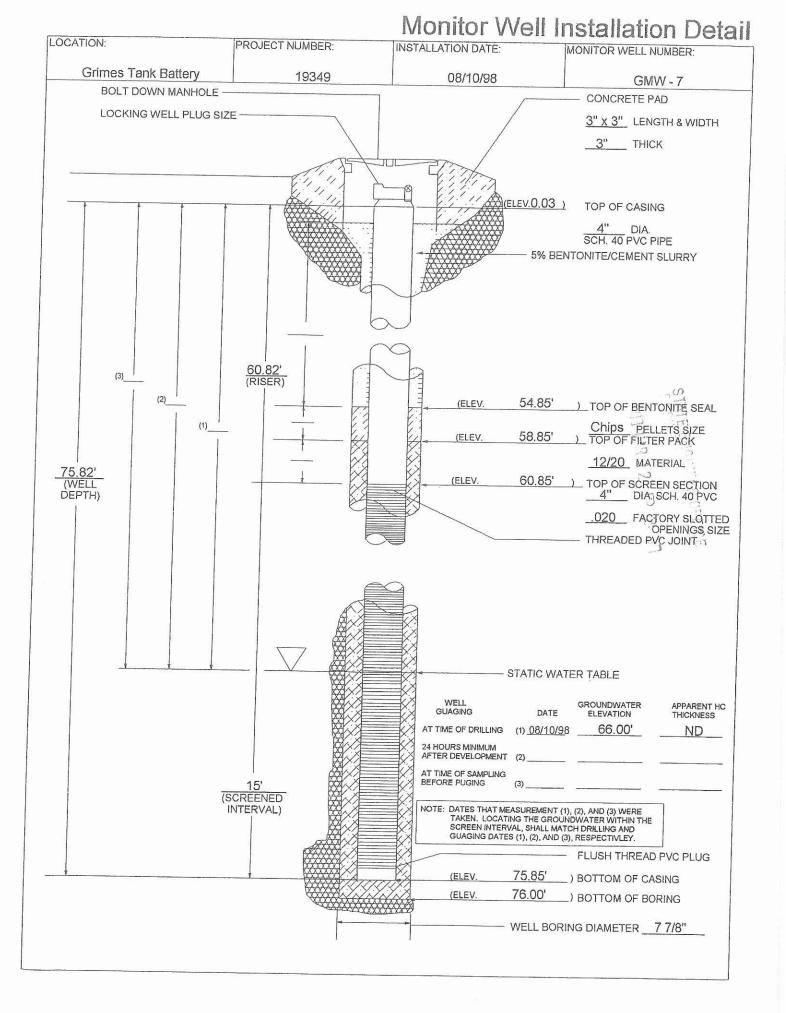
### Monitor Well Installation Detail

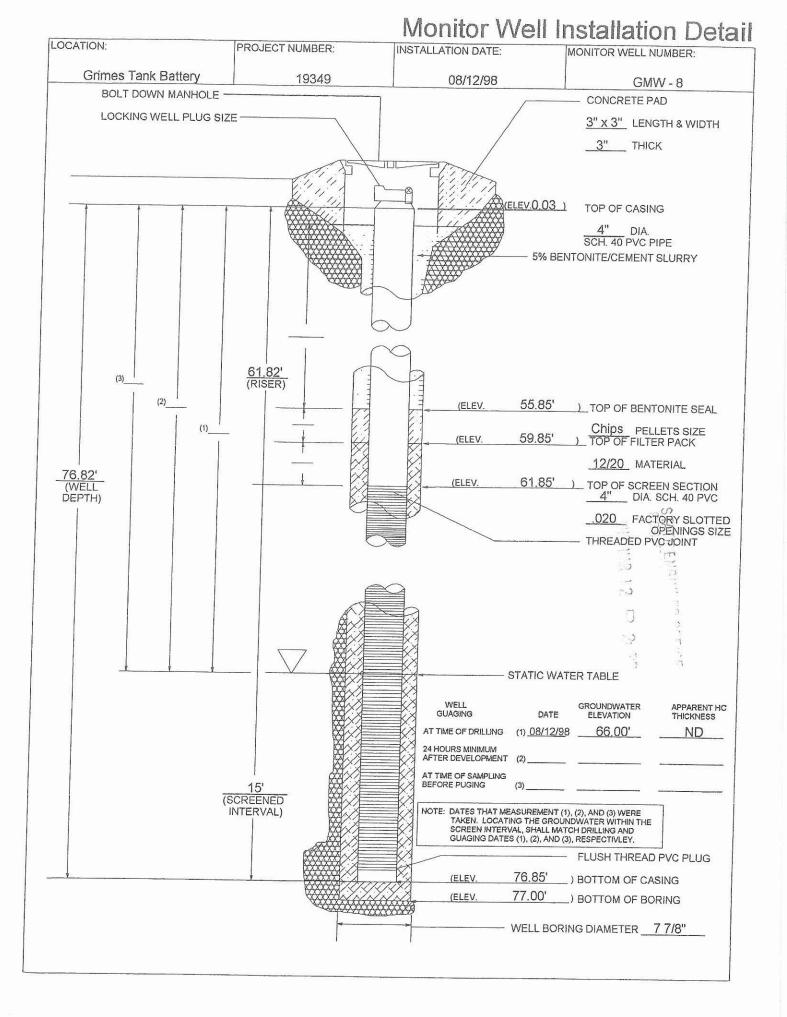


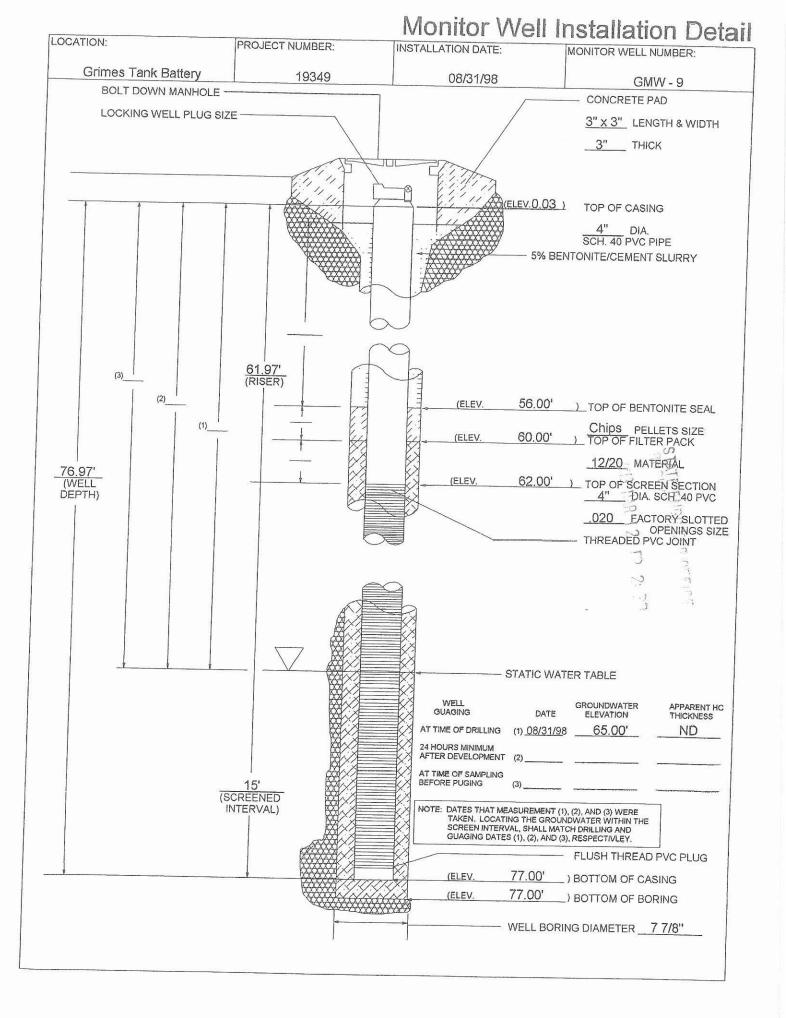
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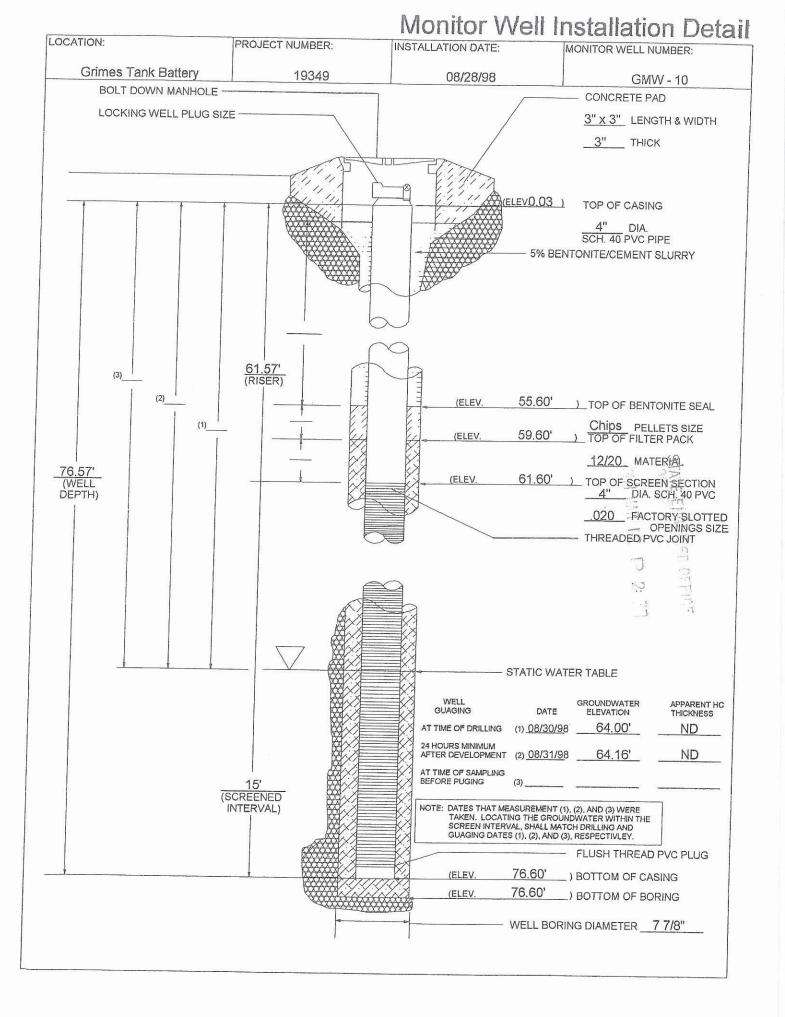


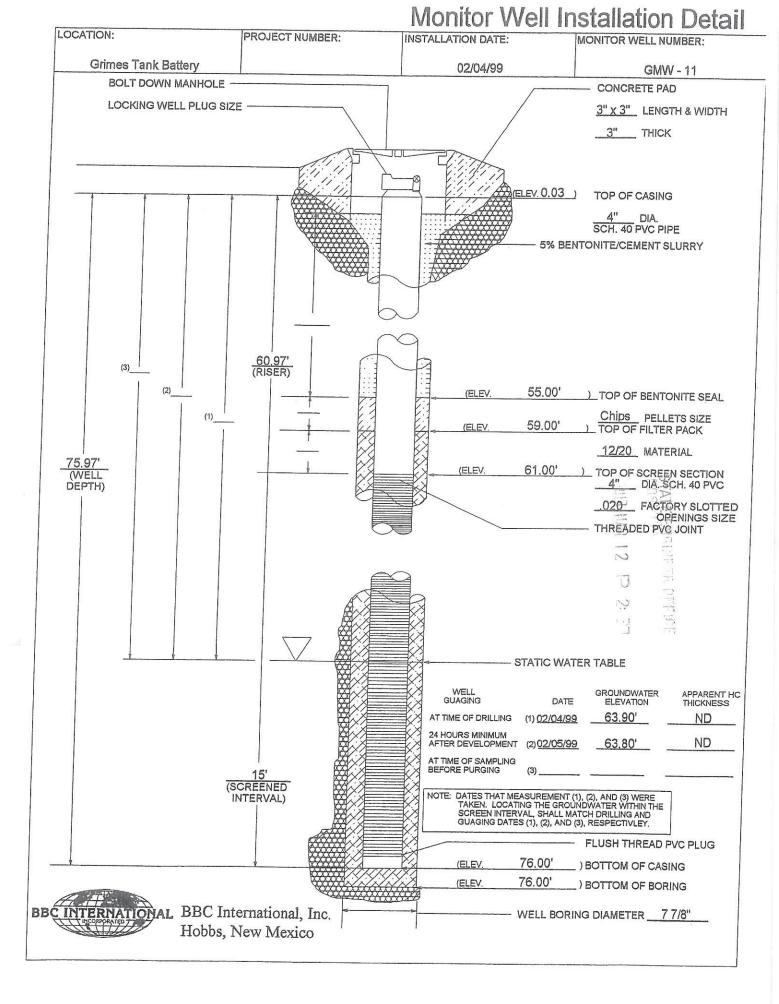














PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805 E-MAIL. cbrunson@bbcinternational.com

March 11, 2012

New Mexico State Engineer's Office 1900 W. 2<sup>nd</sup> Street Roswell, NM 88201

#### SUBJECT: Well Plugging, Plan of Operations

To Whom It May Concern:

On behalf of Shell Exploration and Production Company, BBC International, Inc. respectfully submits this Plan of Operations for the plugging of eleven ground water monitoring wells located in the City of Hobbs, NM, Lea County. I have attached the Well Plugging Plan of Operations form and copies of the monitor well installation diagrams. The names of these wells are GMW-1 – GMW-11 and they were installed in 1997, 1998 and 1999. The wells range in depth of approximately 75 - 83 feet. There had been crude oil on the water table, but that has now been completely removed, hence, the approval from the Oil Conservation Division to plug these wells.

This site was an oilfield remediation site since 1997 and has been administered by the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division. On February 12, 2013, the Oil Conservation Division granted approval to plug and abandon the monitor wells at the site. The approval letter is attached for your reference.

I was informed that only one form was necessary for the eleven wells. I hope this is correct. I look forward to receiving the approval to plug and abandon these wells as soon as possible. Please send the plugging approval to my attention at: P. O. Box 805, Hobbs, NM 88241. Upon completion of the plugging operations, the Plugging Record forms will be sent in to your office.

If you have any questions, please contact me at (575) 397-6388 or via electronic mail: cbrunson@bbcinternational.com.

Sincerely,

liff P. Tuna

Cliff P. Brunson President

enclosure

Susana Martinez Governor

John Bemis Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary Jami Bailey Division Director Oil Conservation Division



February 12, 2013

Lynn Walker Shell Exploration & Production Company 200 N. Dairy Ashford Rd. Houston, Texas 77079

RE: Westgate Subdivision/Grimes Battery & Tasker Road (AP-2) in Unit Letter K of Section 28, Township 18 South, Range 38 East NMPM in Hobbs, New Mexico

Mr. Walker,

I have reviewed the *Groundwater Monitoring Closure Report AP-2 July 2012* submitted on your behalf my BBC International on September 20, 2012 regarding the above-referenced site. The available information indicates Shell Exploration & Production Company (Shell) has met the requirements of 19.15.29 NMAC and no further corrective action is required. You are hereby notified abatement plan AP-2 is closed.

This determination by the Oil Conservation Division does not relieve Shell of responsibility should future information indicate a threat to ground water, surface water, human health, or the environment. Furthermore, it does not relieve Shell of responsibility for compliance with any federal, state, or local laws and/or regulations.

Please properly plug the eleven remaining monitoring wells per requirements of the New Mexico Office of the State Engineer and forward copies of the plugging reports to me. Thank you.

Respectfully,

Jim Griswold Senior Hydrologist

cc: Geoff Leking, OCD District I Office, Hobbs Cliff Brunson, BBC International







NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

#### I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: <u>Not Permit</u>	ted (GMW-1)		
Wellowner: <u>Shell Exploration &amp; Pr</u>	oduction Co.	Phone No.:(	332) 337-2206
Mailing address: 200 N. Dairy Ashfor	d Rd.		
City:Houston	State:Texas		Zip code:77079

1)	Name of well drilling company that plugged well: <u>White Drilling Company</u> , Inc.
2)	New Mexico Well Driller License No.: WD-1456 Expiration Date: 9/30/2014
3)	Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): <u>William B. Atkins</u>
4)	Date well plugging began: Date well plugging concluded:
5)	GPS Well Location:Latitude: 32deg, 42min, 52.9secLongitude: 103deg, 09min, 22.3sec, WGS 84
6)	Depth of well confirmed at initiation of plugging as: <u>70.4</u> ft below ground level (bgl), by the following manner: <u>tape measure</u>
7)	Static water level measured at initiation of plugging: <u>Dry</u> ft bgl
8)	Date well plugging plan of operations was approved by the State Engineer: 3/14/2013
9)	Were all plugging activities consistent with an approved plugging plan? <u>Yes</u> If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):
.7	

) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

epth t bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
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	I	MULTIPLY B cubic feet x 7.4 cubic yards x 201.9	805 = gallons		

For each interval plugged, describe within the following columns:

#### **III. SIGNATURE:**

I, <u>John W. White</u>, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2

10)





NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

#### I. GENERAL / WELL OWNERSHIP:

State Eng	gineer Well Number: <u>Not Permitted</u>	GMW-2)			
Well own	ner: <u>Shell Exploration &amp; Product</u>	ion Co.	B	Phone No.:	(832) 337-2206
Mailing a	address: 200 N. Dairy Ashford Rd.				
City:	Houston	State:	Texas		Zip code:77079

)	New Mexico Well Driller License No.: WD-1456 Expiration Date: 9/30/2014
)	Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): <u>William B. Atkins</u>
	Date well plugging began: Date well plugging concluded:
	GPS Well Location:Latitude:32deg,42min,54.9secLongitude:103deg,09min,24.7sec,WGS 84
	Depth of well confirmed at initiation of plugging as: <u>72.0</u> ft below ground level (bgl), by the following manner: <u>tape measure</u>
	Static water level measured at initiation of plugging: Dry ft bgl
	Date well plugging plan of operations was approved by the State Engineer: <u>3/14/2013</u>
	Were all plugging activities consistent with an approved plugging plan? <u>Yes</u> If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):
****	

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	<u>Theoretical Volume</u> of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0 72.0	Type 2 Portland cement w/5% quick gel mix	45.0	47.016	-	nie pipe from bottom up
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			i nasiri <sup>k</sup> ini kasi	, 8 - C	
No. of Concession, Name	а. <sup>198</sup>	and a state of the	an an chiman and s	$(1,1)^{(1)} (A_{1}) (A_{2}) (A_{2})^{(1)} (A_{2}) (A_{2})^{(1)} (A_{2}$	a na -collar -
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SIGNA			BY AND OBTAIN 805 = gallons 97 = gallons		×

#### For each interval plugged, describe within the following columns:

#### III. SIGNATURE:

I, <u>John W. White</u>, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2

10)





NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

#### I. GENERAL / WELL OWNERSHIP:

State Eng	ineer Well Number: <u>Not Permitted</u>	(GMW-3	B)			0-
Well own	er: <u>Shell Exploration &amp; Product</u> :	ion Co.		Phone No.: _	(832) 337-2206	- 148
Mailing a	ddress: 200 N. Dairy Ashford Rd.					
City:	Houston	State: _	Texas		Zip code:770	79

1)	Name of well drilling company that plugged well: <u>White Drilling Company, Inc.</u>
2)	New Mexico Well Driller License No.: WD-1456 Expiration Date: 9/30/2014
3)	Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): <u>William B. Atkins</u>
4)	Date well plugging began: <u>3/18/13</u> Date well plugging concluded: <u>3/18/13</u>
5)	GPS Well Location:Latitude: 32deg, 42min, 52.7secLongitude: 103deg, 09min, 23.5sec, WGS 84
6)	Depth of well confirmed at initiation of plugging as: <u>69.35</u> ft below ground level (bgl), by the following manner: <u>tape measure</u>
7)	Static water level measured at initiation of plugging: <u>Dry</u> ft bgl
8)	Date well plugging plan of operations was approved by the State Engineer: 3/14/2013
9)	Were all plugging activities consistent with an approved plugging plan? <u>Yes</u> If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):
	· /
-	

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with 10) horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary

Depth t bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
0_ 59.35_	Type 2 Portland cement w/5% quick gel mix	45.0	45.285	pump w/tre	nie pipe from bottom u
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			BY AND OBTAIN 4805 = gallons		5

#### For each interval plugged, describe within the following columns:

#### I

\_, say/that ) am familiar with the rules of the Office of the State John W. White I, \_\_\_\_ Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date





NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

#### I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: <u>Not Permit</u>	ted (GMW-4)		
Wellowner: Shell Exploration & Pr	oduction Co.	Phone No.:	(832) 337-2206
Mailing address: 200 N. Dairy Ashfor	d Rd.		
City: Houston	State:Texas		Zip code: <u>77079</u>

Name of well drilling company that plugged well	White Drilling Company, Inc.
New Mexico Well Driller License No.:	Expiration Date: 9/30/2014
Well plugging activities were supervised by the fo	ollowing well driller(s)/rig supervisor(s): <u>William B. Atkins</u>
Date well plugging began:3/19/13	Date well plugging concluded: 3/19/13
GPS Well Location: Latitude: 32 Longitude: 103	deg,42min,51.5sec deg,09min,23.7sec, WGS 84
Static water level measured at initiation of plugging	ng: <u>73.50</u> ft bgl
Date well plugging plan of operations was approv	ed by the State Engineer: <u>3/14/2013</u>
Were all plugging activities consistent with an ap differences between the approved plugging plan a	proved plugging plan? <u>Yes</u> If not, please describe nd the well as it was plugged (attach additional pages as needed):
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	New Mexico Well Driller License No.:       WD-14         Well plugging activities were supervised by the for         Date well plugging began:       3/19/13         GPS Well Location:       Latitude:       32         Longitude:       103         Depth of well confirmed at initiation of plugging by the following manner:       tape measure         Static water level measured at initiation of plugging         Date well plugging plan of operations was approv         Were all plugging activities consistent with an app differences between the approved plugging plan a

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with 10) horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

epth t bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0 75.90	Type 2 Portland cement w/5% quick gel mix	48.0	49.5627	pump w/trem	nie pipe from bottom u
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#### For each interval plugged, describe within the following columns:

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, say that /I am familiar with the rules of the Office of the State Ι, John W. White Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2





NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

#### I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number:Not	Permitted (GMW-5)		
Well owner: Shell Explorat:	on & Production Co.	Phone No.: (832) 33	37-2206
Mailing address: 200 N. Dairy	Ashford Rd.		
City: Houston	State: Texas	Zip co	de:

1)	Name of well drilling company that plugged well: <u>White Drilling Company</u> , Inc.
2)	New Mexico Well Driller License No.: WD-1456 Expiration Date: 9/30/2014
3)	Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): <u>William B. Atkins</u>
4)	Date well plugging began: Date well plugging concluded:
5)	GPS Well Location:Latitude:32deg,42min,52.2secLongitude:103deg,09min,27.6sec,WGS 84
6)	Depth of well confirmed at initiation of plugging as: <u>76.0</u> ft below ground level (bgl), by the following manner: <u>tape measure</u>
7)	Static water level measured at initiation of plugging: 74.85 ft bgl
8)	Date well plugging plan of operations was approved by the State Engineer: <u>3/14/2013</u>
9)	Were all plugging activities consistent with an approved plugging plan? $\underline{ves}$ If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):
2	

b) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

Depth ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0_ 76.0_	Type 2 Portland cement w/5% quick gel mix	48.0	49.628	pump w/tre	nie pipe from bottom u
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			BY AND OBTAIN	1	
		MULTIPLY cubic feet x	BY AND OBTAIN 7.4805 = gallons		

#### For each interval plugged, describe within the following columns:

#### **III. SIGNATURE:**

I, <u>John W. White</u>, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2

10)





NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

#### I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: <u>Not Permitted</u>	(GMW-6	i)		
Wellowner: Shell Exploration & Product	ion Co	A	Phone No.: _	(832) 337-2206
Mailing address: 200 N. Dairy Ashford Rd.				
City: Houston	State:	Texas		Zip code:77079

1)	Name of well drilling company that plugged well: <u>White Drilling Company</u> , Inc.				
2)	New Mexico Well Driller License No.: WD-1456 Expiration Date: 9/30/2014				
3)	Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): <u>William B. Atkins</u>				
4)	Date well plugging began:3/19/13 Date well plugging concluded:3/19/13				
5)	GPS Well Location:Latitude:32deg,42min,51.2secLongitude:103deg,09min,22.4sec,WGS 84				
6)	Depth of well confirmed at initiation of plugging as: <u>74.0</u> ft below ground level (bgl), by the following manner: <u>tape measure</u>				
7)	Static water level measured at initiation of plugging:ft bgl				
8)	Date well plugging plan of operations was approved by the State Engineer: 3/14/2013				
9)	Were all plugging activities consistent with an approved plugging plan? <u>Yes</u> If not, please described differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):				
0					

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)	
0 74.0	Type 2 Portland cement w/5% quick gel mix	48.0	48.322	pump w/trea	nie pipe from bottom u	
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#### For each interval plugged, describe within the following columns:

#### **III. SIGNATURE:**

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I, <u>John W. White</u>, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief. 415/13

Signature of Well Driller

Date





NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

#### I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: <u>Not Permitted</u> (	GMW-7)				- 1467 
Wellowner: Shell Exploration & Product:	ion Co.	L	Phone No.: _	(832) 337-2	206
Mailing address: 200 N. Dairy Ashford Rd.					
City: Houston	State: _	Texas		Zip code:	77079

1)	Name of well drilling company that plugged well: <u>White Drilling Company</u> , Inc.
2)	New Mexico Well Driller License No.: WD-1456 Expiration Date: 9/30/2014
3)	Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): <u>William B. Atkins</u>
4)	Date well plugging began: 3/19/13 Date well plugging concluded:3/19/13
5)	GPS Well Location:Latitude:32deg,42min,51.4secLongitude:103deg,09min,20.1sec,WGS 84
6)	Depth of well confirmed at initiation of plugging as: <u>71.6</u> ft below ground level (bgl), by the following manner: <u>tape measure</u>
7)	Static water level measured at initiation of plugging: <u>Dry</u> ft bgl
8)	Date well plugging plan of operations was approved by the State Engineer: <u>3/14/2013</u>
9)	Were all plugging activities consistent with an approved plugging plan? <u>Yes</u> If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):
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10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

Depth ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	<u>Theoretical Volume</u> of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0 71.60	Type 2 Portland cement w/5% quick gel mix	45.0	46.7548	pump w/trea	nie pipe from bottom uj
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			3Y AND OBTAIN 805 = gallons 87 = gallons		

#### For each interval plugged, describe within the following columns:

#### **III. SIGNATURE:**

-

I, <u>John W. White</u>, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller Date

Version: September 8, 2009 Page 2 of 2





NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

#### I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number:	Not Permitted (GMW-8)		
Well owner: <u>Shell Explo</u>	pration & Production Co.	Phone No.: _	(832) 337-2206
Mailing address: 200 N. D	airy Ashford Rd.		
City: <u>Houston</u>	State: Texas		Zip code:77079

	Name of well drilling company that plugged		
)	New Mexico Well Driller License No.:W	-1456 Exp	iration Date: 9/30/2014
)	Well plugging activities were supervised by	e following well driller(s)/rig supervisor	r(s): <u>William B. Atkins</u>
)	Date well plugging began: 3/19/13	Date well plugging concluded	d:
)	GPS Well Location: Latitude: 3 Longitude: 10	deg, <u>42</u> min, <u>52.8</u> deg, <u>09</u> min, <u>20.4</u>	
)	Depth of well confirmed at initiation of plugg by the following manner: <u>tape measure</u>		l (bgl),
)	Static water level measured at initiation of pl	gging: <u>75.40</u> ft bgl	
)	Date well plugging plan of operations was ap	proved by the State Engineer: <u>3/14/20</u>	013
)	Were all plugging activities consistent with a differences between the approved plugging p	an and the well as it was plugged (attach	additional pages as needed):
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Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	<u>Theoretical Volume</u> of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0_ 75.70_	Type 2 Portland cement w/5% quick gel mix	48.0	49.4321	pump w/trea	nie pipe from bottom u
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			3Y AND OBTAIN 805 = gallons 87 = gallons		

## For each interval plugged, describe within the following columns:

#### III. SIGNATURE:

-

I, <u>John W. White</u>, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

13

Signature of Well Driller

Date



# PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

### I. GENERAL / WELL OWNERSHIP: State Engineer Well Number: Not Permitted (GMW-9) Phone No.: (832) 337-2206 Wellowner: Shell Exploration & Production Co. Mailing address: 200 N. Dairy Ashford Rd. Houston State: Texas Zip code: 77079 City: **II. WELL PLUGGING INFORMATION:** Name of well drilling company that plugged well: \_\_\_\_\_\_ White Drilling Company, Inc. 1) New Mexico Well Driller License No.: WD-1456 Expiration Date: 9/30/2014 2) 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins Date well plugging began: 3/18/13 Date well plugging concluded: 3/18/13 4) GPS Well Location: Latitude: 32 deg. 42 5) min, 53.8 sec Longitude: 103 09 min, 21.8 sec, WGS 84 deg, Depth of well confirmed at initiation of plugging as: <u>76.0</u> ft below ground level (bgl), 6) by the following manner: tape measure Static water level measured at initiation of plugging: 75.0 ft bgl 7) 8) Date well plugging plan of operations was approved by the State Engineer: 3/14/2013 Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe 9) differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0_ 76.0_	Type 2 Portland cement w/5% quick gel mix	48.0	49.628	pump w/trem	nie pipe from bottom up
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			BY AND OBTAIN 4805 = gallons 97 = gallons		

## For each interval plugged, describe within the following columns:

### **III. SIGNATURE:**

-

I, <u>John W. White</u>, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

513

Date



# PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

#### I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: Not Per	mitted (GMW-10)		1	
Wellowner: Shell Exploration &	vner: <u>Shell Exploration &amp; Production Co.</u> Phone N		(832) 337-2206	
Mailing address: 200 N. Dairy Ash	ford Rd.			
City: <u>Houston</u>	State: Texas		Zip code:77079	

#### **II. WELL PLUGGING INFORMATION:**

2)

1)	Name of well drilling company that plug	ged well:	White Drilling	Company, Inc.	
2)	New Mexico Well Driller License No .:	WD-1456		Expiration Date:	9/30/2014

Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins 3)

3/19/13 3/19/13 Date well plugging concluded: Date well plugging began: 4)

32 **GPS Well Location:** Latitude: deg. 42 min. 53.3 sec 5) sec, WGS 84 Longitude: 103 deg, 09 min, 25.5

Depth of well confirmed at initiation of plugging as: 75.85 ft below ground level (bgl), 6) by the following manner: tape measure

Static water level measured at initiation of plugging: 72.90 ft bgl 7)

Date well plugging plan of operations was approved by the State Engineer: \_3/14/2013 8)

Were all plugging activities consistent with an approved plugging plan? ves If not, please describe 9) differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	<u>Theoretical Volume</u> of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0 75.85	Type 2 Portland cement w/5% quick gel mix	48.0	49,5300	pump w/tren	nie pipe from bottom up
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## For each interval plugged, describe within the following columns:

#### **III. SIGNATURE:**

-

I, \_\_\_\_\_\_, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

5

Signature of Well Driller

Date



# PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

### I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: <u>Not Permitted</u>	(GMW-1	1)			1 
Wellowner: Shell Exploration & Product:	ion Co	A	Phone No.: _	(832) 337-2	206
Mailing address: 200 N. Dairy Ashford Rd.					
City: Houston	State:	Texas		Zip code:	77079

#### **II. WELL PLUGGING INFORMATION:**

1)	Name of well drilling company that plugged well:
2)	New Mexico Well Driller License No.: WD-1456 Expiration Date: 9/30/2014
3)	Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): <u>William B. Atkins</u>
4)	Date well plugging began:
5)	GPS Well Location:Latitude:32deg,42min,55.6secLongitude:103deg,09min,22.0sec,WGS 84
6)	Depth of well confirmed at initiation of plugging as: <u>74.10</u> ft below ground level (bgl). by the following manner: <u>tape measure</u>
7)	Static water level measured at initiation of plugging: 73.10 ft bgl
8)	Date well plugging plan of operations was approved by the State Engineer: <u>3/14/2013</u>
9)	Were all plugging activities consistent with an approved plugging plan? <u>Yes</u> If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):
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Depth t bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
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		MULTIPLY E cubic feet x 7.4 cubic yards x 201.9		1	

#### For each interval plugged, describe within the following columns:

#### **III. SIGNATURE:**

1

I, <u>John W. White</u>, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date





















