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Submit I Copy To Appropriate District State of New Me			/ Form C-103		
Energy Minerals and Natu	ral Resources	WELL API	Revised July 18, 2013		
District I - (5/5) 395-6161 1625 N. French Dr., Hobbs, NM 88240 District II - (575) 748-1283 HOBBS OCD OIL CONSERVATION	DIVISION	30-025-41369			
District III (505) 334 6178 $10000210$			Type of Lease		
$\frac{District IV}{District IV} = (505) 476-3460$		STAT 6. State Oil	ΓΕ ⊠ FEE □ & Gas Lease No.		
1220 S. St. Francis Dr., Santa Fe, NM 87505		0. 5.4.0 0.			
SUNDRY NOTICES AND REPORTS ON WELLS		7. Lease Na	me or Unit Agreement Name		
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLU DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FO			CDAVDUDC CAN ANDDEC		
PROPOSALS.)		UNIT	GRAYBURG SAN ANDRES		
1. Type of Well: Oil Well 🛛 Gas Well 🗌 Other		8. Well Nur	nber 113		
2. Name of Operator		9. OGRID N	Number 4323		
CHEVRON U.S.A. INC.		10. Pool nat	me or Wildcat		
15 SMITH ROAD, MIDLAND, TEXAS 79705			GRAYBURG SAN ANDRES		
4. Well Location		/			
Unit Letter: P 820 feet from SOUTH line and 175 fee					
Section 1 Township 18S I 11. Elevation (Show whether DR,	<u> </u>	NMPM	County LEA		
3985' GR					
12 Check Appropriate Day to Indicate N	oture of Nation	Domo <i>s</i> t ou O	Ithan Data		
12. Check Appropriate Box to Indicate N		Report of O	uller Data		
PERFORM REMEDIAL WORK  PLUG AND ABANDON  TEMPORARILY ABANDON  CHANGE PLANS	REMEDIAL WORK		ALTERING CASING     P AND A		
PULL OR ALTER CASING MULTIPLE COMPL	CASING/CEMENT				
CLOSED-LOOP SYSTEM	OTHER: D	RILL NEW W	FU		
13. Describe proposed or completed operations. (Clearly state all p	pertinent details, and	give pertiner	nt dates, including estimated date		
of starting any proposed work). SEE RULE 19.15.7.14 NMAC proposed completion or recompletion.	C. For Multiple Con	npletions: Att	tach wellbore diagram of		
· · · · ·					
PLEASE FIND ATTACHED, REPORTS FOR WORK DONE FROM THIS NEW WELL.	11/23/2013 THROU	GH 12/11/20	13 FOR THE DRILLING OF		
SPUD DATE: 11/28/2013 11/29/2013: SET SURFACE CSG, 11.75", SET @ 1526. CMT W/10	035 SX CMT				
12/06/2013: SET INTERMEDIATE CSG, 8.625", SET @ 3210'. CI	MT W/595 SX CM	Т.			
12/11/2013: SET PRODUCTION CSG, 5.5", SET @ 5119'. CMT	W/880 SX CMT.				
TD: 5130:		•			
PBTD: 5119'					
Spud Date: Rig Release Da	ite:				
The share of the state in the second s					
I hereby certify that the information above is true and complete to the be	est of my knowledge	e and benef.			
NAMISA (MATASTIA) THE DECU	U ATONY OPPOIA	LIOT			
SIGNATURE TITLE REGI	JLATORY SPECIA	1151	DATE 06/11/2014		
	s: <u>leakejd@chevro</u>	n.com	PHONE: 432-687-7375		
For State Use Only					
	etroleum Engine	<b>x</b> .	_DATE_06/2014		
Conditions of Approval (if any):		. 1	•		

* JUN	2	3	20	14
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# **Summary Report**

Drill Drill and Suspend Job Start Date: 11/23/2013 Job End Date: 12/11/2013

	,		Job End Date: 12/11/201
Well Name VACUUM GRAYBURG SA UNIT 113	Lease Vacuum Grayburg San Andres Unit	Field Name Vacuum	Business Unit Mid-Continent
Ground Elevation (ft) Original RKB (ft)	Current RKB Elevation 4,003.50, 11/12/2013		Mud Line Elevation (ft) Water Depth (ft) 0.00 0.
Report Start Date: 11/23/2013			
		Com	······································
R/D H&P 356 on CVU 181wi			
Operations suspended due to icy weathe	r conditions		
Report Start Date: 11/24/2013		<u></u>	
Operations suspended due to icy weathe	r conditions	Com	
R/D H&P 356 on CVU 181wi.			
Power down top drive & drawworks. Doc & Pin MRCs	k top drive. Scope in derrick. Finish R/[	) front and back yard ri	g components. Finish Unplugging All Electric Wires, Bleed
Operations suspended until daylight			
Report Start Date: 11/25/2013			
Operations suspended until daylight		Com	
R/U H&P 356 on VGSAU 113. Spotted C	DDS sub VED Mud nump skid and sha	ker skid	
Operations suspended until daylight			
Report Start Date: 11/26/2013			
		Com	
Continue moving H&P 356 & rigging up	· · · · · · · · · · · · · · · · · · ·		
Report Start Date: 11/27/2013		(an)	
Continue rigging up, install flow line. Wel	d on conductor	Com	
Connect flow line & turnbuckles.			······
Continue rigging up, repair damage from	recent freeze. Lay out and strap BHA.		
TH, tag @ 75'			
Report Start Date: 11/28/2013			
		Com	
Change saver sub from XT-39 to 4 1/2XC			
Fill surface lines & pressure test standpip	······································		
Drill 14 3/4"surface hole section from 75'	to 1195 '		
			HOBBS OCD
WOB = 5-10 Klbs RPM = 150			JUN 1 6 2014
Motor RPM = 165			
GPM = 750			
SPP = 1900psi Torque =5-6 Kft*lbs			RECEIVED
Differential = 450 psi			
Teledrift would not give survey, changed	control wire and stand nine transducer	no success discussio	n made to drill to TD and drop Totco survey
Drill 14 3/4"surface hole section from 119			
AROP = 49 FPH WOB = 5-10 Klbs			
RPM = 150			
Motor RPM = $165$			
GPM = 750 SPP = 1900psi			
Torque =5-6 Kft*lbs			
Differential = 450 psi			
Pump 2 40 bbl high vis sweeps, circulate	hole clean		
Nonitor well while letting Totco survey fal			
PJSM, TOH with 14 3/4" surface drilling a		· ·	
Backream from 1165' to 1040'			
Continue TOH from 1040' to 385' (Mldnig	ht Depth)		
Report Start Date: 11/29/2013			
		Com	
Continue TOH from 385' to surface, brea	k bit & L/D		
Clean Rig Floor			
Review JSA, R/U H&P CRT & 2-point cal	ibrate draw works		······································
PJSM, R/U Franks power tongs			
		age 1/7	Report Printed: 6/11/20
	F	aye I//	keport Printed: 6/11/2

## **Summary Report**

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VACUUM GRAYBURG SA UNIT 113       Vacuum Grayburg San Andres Unit       Vacuum       Mid-Continent         Ground Elevation (ft) 3,985.00       Original RKB (ft) 4,003.50       Current RKB Elevation 4,003.50       Mud Line Elevation (ft) 0.00       Mud Line Elevation (ft) 0.00       Mud Line Elevation (ft) 0.00       0.00         PJSM, M/U Shoe Track & Pump Through Same, RIH with 11 3/4" 42# STC surface casing, tagged bottom @ 1526' (Washed down last two joints)       Circulate 1 1/2 casing volume (Held safety meeting with Halliburton, Chevron & H&P rig crew on rig up & pumping cement schedule)       R/U Halliburton cmt head & pumping iron         Test lines to 2500 psi, Cement per Halliburton pump schedule. Displace 177 bbls of FW. Bumped plug and held 1050 psi for 5 minutes (FCP=590 psi), test good. Checked floats, bled back 1/2 bbl. Full returns throughout the job. Returned 180 bbls of cement to surface.       bbls sacks bpm wt. (ppg)         Spacer       20       n/a       5       8.4         Lead       200       610       6       12.9         Tail       101       425       6       14.8	Chevron	Summary Re	Job Start Date: 11/23/2013 Job End Date: 12/11/2013
Sourd Budget mg 3, deb 0, double (double 0, double 0, d	Well Name VACUUM GRAYBURG SA UNIT 113	Lease Field Name Vacuum Grayburg San Andres Unit Vacuum	Business Unit Mid-Continent
Dom         Dom           PUSM, MU Start Track & Pump Through Same, RHI with 11 3/4" 428 SIC surface Casing, Lagged bottom (§) 1526" (Washed down isst two jorits)           RU Hallburth mit head & pumping tim           Ru Hallburth mit head pumping tim           Ru Hallburth mi	Ground Elevation (ft) Original RKB (ft)	Current RKB Elevation	
PJBK, MU Shor Track & Pump Through Same, RHI with 13 94' 49 STG surface care guoged bottom (i) 1529 (Washed down slave jorkin) Carcular 112 carcular structure shore-ular RD Hallwarton cmh ead & pumping ion Table Instein Stor 2000, Clener Ley Ellibuting pump schedulic Deplace 17 bibls of FW. Bumpes plug and field 1050 pli for 5 minutes (f CP+500 pa), test good. Checked floats, bled bock 1/2 bbl. Full returns throughout the job. Returned 160 bbls of cement to surface. Paper 20 mm 5 5 4 Tail 101 425 5 14.6 Dip, 177 NA 5 5 4.4 RD down Hallburton CMT head & pumping Ion, Tabh Ihrough surface Imas Structure 101 426 5 14.6 Dip, 177 NA 5 5 4.4 RD down Hallburton CMT head & pumping Ion, Tabh Ihrough surface Imas Structure 101 426 5 14.6 Dip, 177 NA 5 5 4.4 RD down Hallburton CMT head & pumping Ion, Tabh Ihrough surface Imas Structure 101 426 7 5 14.4 Dip, 177 NA 5 5 4.4 RD down Hallburton CMT head & pumping Ion, Tabh Ihrough surface Imas Structure 101 426 7 5 14.4 Dip, 177 NA 5 5 4.4 RD down Hallburton CMT head & pumping Ion, Tabh Ihrough surface Imas Structure 101 70 Na 5 10 4.4 RD down Hallburton CMT head & pumping Ion, Tabh Ihrough surface Imas Structure 11/200201 Con Con Con Con Con Con Con Con	3,985.00 4,003.50	4,003.50, 11/12/2013	0.00 0.00
Circulate 11/2 casing volume (Held safety meeting with Halibution, Deavon & H&P ing crow on rig up & pumping cement schedule) Exal lines to 2010 put, Cement per i talibution pumpi scheduld. Displace 177 bits of FW. Burneed plug and Held 1050 psi for 5 minules (I*CP+590 psi), lest good. Checket flows, Led book. 72 bits 1 metrys have been week to be the schedule) Spacer books and be more scheduld. The schedule is the schedule			and betters @ 15001 (Meshed down leathing isints)
RAU Hallburdar orth feed & purpting teo Test lines to 2500 pit Comen per Hallburdan purp scheduliz. Displace 177 bits of FW. Burned plug and held 1050 pit for 5 minutes (ICP-590 pit), fest good. Checked foats, bid back 1/2 bit. Full returns through auf bits of owner to surface. bits acks by my the provide the provide the point of			
Test lines to 2500 ppi Cement per Heillburting pump schedule. Displace 177 bils of FW. Burnged plug and held 1050 pai for 5 minutes (if CP-590 psi), test good. Checked floats, biod bask 12 bit. Heil terums methodynuble the job. Returned 180 bits of earned to surface.  Seed Checked floats, bidd bask 12 bit. Heil terums methodynuble the job. Returned 180 bits of earned to surface.  Field 20 n/3 c 84  Field 20 n/3 c 84  Field 20 n/3 c 84  Field one Hildburten CMT fead & pump foro. Rute floatopic surface intes  See desing and destor. Mit Field & pump foro. Rute floatopic surface intes  See desing and destor. Mit Field & pump foro. Rute floatopic surface intes  See desing and fest of M-259 verification  FIEL Tig Naple. ND conductor pipe, cut conductor & 11 3/4* surface casing. LD, out conductor & casing, make final cut on 11 3/4*  FIESM Riol 188 CENT  Cut of conductor casing and prep  mail well-ad and test to BSOTO min  Naple up DO  Report Start Date: 11/30/2013  Con  Field Tig Naple. Chevron 8 H&P core on testing BOPL. Install Test Pipe 3 Field State Vitik Vater  Field mode state in the Stoto bits in the surface intes  FIESM Rinds to BED to BOTO min  Naple up DO  Report Start Date: 11/30/2013  Con  Field Tig Naple. Div. Chevron 8 H&P core on testing BOPL. Install Test Pipe 3 Field State Vitik Vater  Field mode state in the Stoto bits in the surface integet of the state integet on the state integet on the state integet on testing. For up and pump through tack with rig pomps, freesaure to pagen, 250 low, 1500 high, high test Field Casing to 1500 pp for 20 nmp test to 550 high failed, top seel on stately trive. Lower & Upper kelly valves, TiVAs & Instale Care, 250 low, 1500 high, high test Field Casing to 1500 pp for 20 nmp through tack with rig pomps, freesaure top again, 250 low, 1500 high, high test Field Casing to 1500 pp for 20 nmp through tack with rig pomps. Pressure top again, 250 low, 1500 high, high test Field Casing to 1500 pp for 20 nmp through tack with rig pomps. Pressure top 30 pp.  Field Case Content t			or ng up & pumping cement schedule)
good. Checked floats. bieb doek. 1/2 but. Fuir relums throughout the job. Returned 180 bbls of oement to surface. bbls asks born wt. (pog) backs back back backs born wt. (pog) backs back back backs bac			nod plug and hold 1050 pai for 5 minutes (ECD-500 pai) test
Spacer         20         n/a         6         8.4           Lead         200         610         6         12.9           Tail         101         42.5         6         14.8           Dip.         17.7         n/a         5         6.4           Rig down Pulli Tip Nipelie, RDC conductor pipe, cut conductor & 11.34* surface casing. LDL cut conductor & casing. make final Cut on 11.34*           casing and dess for ME-260 vellhead         P           PUS. RDF RAFP CRT         Cut of conductor casing and uses to 55010 min           Nipple up BOP         Report Start Date:         11.30/2013           Cond         Conductor casing and uses to 55010 min         Nipple. Dian Lines. Conter Stack. & Function Tost Rams           PLSM with Mans Nipple.Up, Chevron & H&P crew on testing BOPE. Install Testing Start Date:         11.30/2013         Con           Conductor casing and uses to 5500 FSD Test Pipe Rams, HCR, Choke Line, Kill LINE, Break On Vield Head & Choke Manifold 250 low, 1500 high, high test field gaan, worked annadar, top sead on hydrill was leaking. Torque cap with Mans nipple up core. Re test to 260 low, 1500 high, high test field gaan. Worked annadar, uses on standpipe. Kelly hose. Lower & Upper Kelly nove. Tibo Nigh. Nessure held           Tested stardpipe back to much pumps, 4*vakes on standpipe. Kelly hose. Lower & Upper Kelly valves, TWD high. Piesure held           Tested stardpipe back to much pumps, 4*vakes on standpipe. Kelly hose. Lower & Upper Kelly on	good. Checked floats, bled back 1/2 bbl		
Lead         200         610         6         12.9           Tail         101         425         6         14.8           Disp.         117         N/a         5         8.4           Big down Halbucon CMT head grumping fun, fluch through surface ines         Secaral pad dress for M8-260 wollbad           Set casing and ress for M8-260 wollbad         PISM. RND H&P CRT         Conductor casing and prep           Cut off conductor casing and prep         Install welfhad and test to 5500 rbin.         Nipple up BOP           Report Stat Date:         11/30/2013         Con           Testal Plowline, Turnhuckles, Accumaulator Lines, Fill Up Line, Trp Nipple, Crain Lines, Center Stack, & Function Test Rams         PISM. With Mans Nipple Up, Chevron & H&P Crew on testing BOPC. Install Test Piug & Fill Stack With Water           Perform Koamy Test (Draw Down Pressure 1500 Pib) falled, top seat on hydrid was leaking. Torque cap with Mans nipple up crew, Re-test 0.250 low, 1500 high, high test failed agin, worked annutar, opened up and purp through stack with rig pumps, pressure up again, 250 low, 1500 high, high test failed agin, worked annutar, opened up and pump through stack with rig pumps, Pressure 100           Tested and pipe Deak to mut pumps, 4"wakes on standpipe, Kelly hose. Lower & Upper Kelly values, TWA & Instde Cray, 250 low, 1500 high. Annut Pumps, 4"wakes on standpipe, Kelly hose. Lower & Upper Kelly values, TWA & Instde Cray, 250 low, 1500 high. Annut Pumps and Pump through stack with rig pumps. Pressure 100           Foranged out top drive grabe	• • • • • •		· · · · · · · · · · · · · · · · · · ·
Tail         101         425         6         14.3           Dip,         17         Na         5         8.4           Rig down Hallioutin CMT head & pumping from, flush through surface lines         Secaraging on block PMI Tip (Ngline), RID conductor pipe, cut conductor & 1134" surface casing, LD, cut conductor & casing, make final cut on 1134" casing and tress for MS-260 welfhead           Casing and dress for MS-260 welfhead         PUT         FOR MSP MSP CHT           Cut of conductor casing and prep         PUT         PUT           Install welfhad and test to 50:01 min         Notes the Ngline QL SOCITS         PUT           Ropet 35 and Date:         113:02:013         PUT         PUT           Install Flowline, Turnbuckles, Accumaulator Lines, Fill Up Line, Tinp Nipple, Dran Lines. Center Stack, & Function Test Rams         PUT           Part Stack Konge Up, Chervin & H&P crew on testing BCPE, Install Test Plug & Fill Stack With Water         Perform Koomey Test (Draw Down Fressure 1500 PS) Test Plep Rams. HCR, Chock Line, Kill Line, Break On Veld Head & Chock Manifold 250 low, 1500 logh, Indeas and test to 500 high field, top sear on hydril wais leaking, Grupus cay waith Mains inpipe up each stack with Grupp and test for 30 min           Test Analgies to 1500 bigh field, top sear on standpipe, Kelly hose, Lower & Upper kelly valves, TIWS & Inside Gray, 250 low, 1500 logh, Insign test well well well well well well well wel	•		
Rig down Hallburton CMT head & pumping from, flush through surface lines         Set casing and bets of MB-260 willhead         PJSM, RD H&P CRT         Cul of Gonductor casing and dress of MB-260 willhead         PJSM, RD H&P CRT         Cul of Gonductor casing and dress of MB-260 willhead         Pisstal Wellhead and test to 85010 min         Ninple Up EOP         Report Start Date:       11/30/2013         Cons       Cons         Install Fordings, Turnbuckless, Accumentator Lines, Fill Up Line, Trip Nipple, Drain Lines, Center Stack, & Function Test Rams         PJSM with Mans Nipple Up, Chevron & H&P creating BOPE:       Install Tost Plant Test Circle Down Pressure 1500 Dept Test Pipe Rams, HCR, Cricke Line, Kill Line, Ereak On Weld Head & Choke Manifold 250 low, 1500 High and unit of 250 Low, test to 1500 high failed, top seal on hydrill was teaking, Torque cap with Manns nipple up crew. Re-test to 250 low, 1500 high, high test failed adaptio, 1500 ps for 30 min         Tested casing to 1500 ps for 30 min       Tested casing to 1500 ps for 30 min         Tested casing to 1500 ps for 30 min       Tested casing to 1500 ps for 30 min         Tested casing to 1500 ps for 30 min       Tested casing to 1500 ps for 30 min         Tested casing to 1500 ps for 30 min       Tested casing to 1500 ps for 30 min         Tested casing to 1500 ps for 30 min       Tested casing to 1500 ps for 30 min         Tested casing to 1500 ps for 30 min       Tester Standate: Tester 30 min	Tail 101 425 6		
Sei casing an hotom Full Tip Nipple, PD conductor pipe, cut conductor & 11 3/4" surface casing, JuD, cut conductor & casing, make final cut on 11 3/4" casing and dress for MD-260 wellhead PJSM, RID H&P CRT Cut off conductor casing and prep Install wellhead and tests to 850/10 min Nipple up BOP Report Start Date: 11/30/2013 Com Install Flowline Tumbuckles, Accumaulator Lines, Fill Up Line, Tip Nipple, Drain Lines, Center Stack, & Function Test Rams Explose the transport of the t	Disp. 177 n/a 5	8.4	
casing and dress for M8-260 wellhead PSN: PIC HRP CRT Cit of conductor casing and prep Install wellhead and test to 85010 min Nipple up BOP Report Start Date: 11/30/2013 Con Testal Flowline, Turnbuckles, Accumaulator Lines, Fill Up Line, Trip Nipple. Trail. Testal Flowline, Turnbuckles, Accumaulator Lines, Fill Up Line, Trip Nipple. Trail. Testal Flowline, Turnbuckles, Accumaulator Lines, Fill Up Line, Trip Nipple. Trail. Testal Flowline, Turnbuckles, Accumaulator Lines, Fill Up Line, Trip Nipple. Trail. Testal Flowline, Turnbuckles, Accumaulator Lines, Fill Up Line, Trip Nipple. Trail. Test Annular to 250 Low, test to 1500 Pigh falled, top seal on Hydril was leaking, Torque cap with Marins inple up Crew. Re-test to 250 low, 1500 High, high test failed again, work of annular, opende up and pump through stack with in gumps, pressure up again, 250 low, 1500 High, high test failed again, work of 30 min Tested standpip back to mod pumps, 4" valves on standpips. Kelly hase. Lower & Upper kelly valves. TWVs & Inside Gray, 250 low, 1500 High, high test failed again, work of 30 min Tested standpip back to mod pumps, 4" valves on standpips. Kelly hase. Lower & Upper kelly valves. TWVs & Inside Gray, 250 low, 1500 High, high test failed again, work of 30 min Tested standpips back to mod pumps, 4" valves on standpips. Kelly hase. Lower & Upper kelly valves. TWVs & Inside Gray, 250 low, 1500 High, high test failed again, work of 30 min Tested standpips back to mod pumps, 4" valves on standpips. Kelly hase. Lower & Upper kelly valves. TWVs & Inside Gray, 250 low, 1500 High, High Lest failed again, work of 30 min Tested standpips back to mod pumps, 4" valves on standpips. Kelly hase. Lower & Upper kelly valves. TWVs & Inside Gray, 250 low, 1500 High, High Lest failed again, work of 30 min Tested standpips hase back to mod pumps divel work on the test of the Teste standpips. Kelly hase. Lower & Upper kelly valves. TWVs & Inside Gray, 250 low, 1500 High, High Lest failed again, work on the test with 108 Brine Touliteshoot to d	Rig down Halliburton CMT head & pum	ing Iron, flush through surface lines	
Cut of conductor casing and prep Install wellhead and test to 850/10 min Nopbe Up SOP Report Start Date: 11/30/2013 Con Install Flowline, Turnbuckles, Accumaulator Lines, Fill Up Line, Trip Nipple, Drain Lines, Center Stack, & Function Test Rams PE/SM with Marter Perform Koomey Test (Draw Down Pressure 1500 PSI) Test Pipe Rams, HCR, Choke Line, Kill Line, Break On Weld Head & Choke Manifold 250 low, 1500 High Test Annular to 250 Low, test to 1500 high failed, top seal on hydrill was leaking. Torque cap with Manns nipple up, crew, Re test to 250 low, 1500 high, high test failed again, worked annular, opend up and pump through stack with rig pumps, pressure up again, 260 low, 1500 high, pressure held Tested asing to 1500 ps for 30 mi Tested Standpipe back to mud pumps, 4" valves on standpipe, Kelly hose, Lower & Upper kelly valves, TIWs & Inside Cray, 250 low, 1500 high Tested tasing to 1500 ps for 30 mi Tested tasing to 1500 ps for 30 mi Tested tasing to 1500 ps for 30 mi Tested tasing to the top drive worked not utim on, troubleshoot with H&P electrician, changed out invertor in VFD house. Top Drive running as designed Changed out top drive grabber diles & saver sub from 4 1/2 X-0 to XT-39 P/U BHA and instal Wear Bushing TH with 0 50% dinling assembly to 1435 Perform choke dim while displating fresh water from hole with 10# brine. Note: Top drive invertor was bad again, we could not function top drive Report Start Date: 12/1/2013 Com Com Com Com Com Com Com Com	casing and dress for MB-260 wellhead	R/D conductor pipe, cut conductor & 11 3/4" surface ca	asing, L/D, cut conductor & casing, make final cut on 11 3/4"
Install wellhead and lesi to 850/10 min Nipple up GPP Report Start Date: 11/30/2013			
Nipple up BOP Report Start Date: 11/30/2013 Con Install Flowline, Turnbuckles, Accumaulator Lines, Fill Up Line, Trip Nipple, Drain Lines, Center Stack, & Function Test Rams Parform Koomey Test (Draw Down Pressure 1500 PS) Test Pipe Rams, HCR, Choke Line, Kill Line, Break On Weld Head & Choke Manifold 250 low, 1500 High Test Annular to 250 Low, test to 1500 high failed, top seal on hydrill was leaking. Torque cap with Memrs nipple up crow, Re-test to 250 low, 1500 high, nigh test failed again, worked annuals, opened up and pump through stack with rig pumps, pressure up again, 250 low, 1500 high, pressure held Tested casing to 1500 psi for 30 min Test Antempt to change out saver sub. the top drive would not turn on, troubleshoot with H&P electrician, changed out invertor in VFD house, Top Drive running as designed Changed out top drive grabber dies & saver sub from 4 1/2 X-O to XT-39 PID BHA and install Wear Bushing TH with 105 f8' drilling assembly to 1435' Report Start Date: 12/1/2013 Com			
Conc         Install Flowline, Turnbuckles, Accumaulator Lines, Fill Up Line, Trip Nipple, Drain Lines, Center Stack, & Function Test Rams         PISM with Mans Nipple, Up, Chevron & H&P crew on testing BOPE, Install Test Plug & Fill Stack With Water         Provide the Stack of the Stack With Water         Provide Stack Stack Stack With Water         Provide Stack Stack With Water         Test Annatro to 250 Low, test to 1500 high failed, top seal on hydrill was leaking, Torgue cap with Manns nipple up crew, Re-test to 250 low, 1500 high, Ingin test         Test Annatro to 250 Low, test to 1500 high failed, top seal on hydrill was leaking, Torgue cap with Manns nipple up crew, Re-test to 250 low, 1500 high, Torgue Tor		· · · · · · · · · · · · · · · · · · ·	
Com Install Flowline, Tumbuckles, Accumaulator Lines, Fill Up Line, Trip Nipple, Dran Lines, Center Stack, & Function Test Rams PJSM with Mans Nipple Up. Chevron & H&P crew on testing BOPE. Install Test Plug & Fill Stack With Water Perform Koomey Test (Draw Down Pressure 1500 PSi) Test Pipe Rams, HCR, Choke Line, Kill Line, Break On Weld Head & Choke Manifold 250 low, 1500 Hgh Test Annular to 250 Low, test to 1500 high failed, top sead on hydrill was leaking. Torque cap with Manns nipple up crew, Re-test to 250 low, 1500 high, high test failed again, worked annual: opened up and pump through stack with rig pumps, pressure up again, 250 low, 1500 high, pressure held Tested casing to 1500 psi for 30 min Tested standpipe back to mud pumps, 4" valves on standpipe, Kelly hose, Lower & Upper kelly valves, TiWs & Inside Gray, 250 low, 1500 high A Attempt to change out saver sub the top drive would not tum on, troubleshoot with H&P electrician, changed out invertor in VFD house. Top Drive running as designed Changed out top drive grabber dies & saver sub from 4 1/2 X-O to XT-39 P/U BHA and install Wear Bushing TH with 105 //6" drilling assembly to 1435 Perform choice drill while displacing fresh water from hole with 10# brine. Note: Top drive invertor was bad again, we could not function top drive Report Start Date: 12/1/2013 Com Continue to displace fresh water with 10# Brine Troubleshoot top drive, changed out another inverter Dird cement & Roat equipment from 1484' to 1526' AROP= 42 FPH WCB = 5-8 Klbs RPM = 20 Motor RPM = 77 GPM = 30 SPP = 600psi Drift 10.5 //6" thing assembly to 1455' to 1578' ARCP= 26 FPH WCB = 10-12 Klbs RPM = 20 SPP = 900 psi Drift 0.5 //6" thing assembly to 1456' to 1578' ARCP= 26 FPH WCB = 10-12 Klbs RPM = 10 GPM = 50 SPP = 900 psi Torque 5-6 Kft'lbs Differential = 300 psi On attempt to make cannection, top drive alarmed major fault, circulate while waiting on H&P electrician & tech from SLPC, Electricians checked various parts inside top drive bay in YED house, changed out inverter, checked w			
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inside top drive bay in VFD house, changed out inverter, checked wires from VFD house to rig floor, while checking wires they found a splice in phase cable not			
	inside top drive bay in VFD house, chan	ged out inverter, checked wires from VFD house to rig	floor, while checking wires they found a splice in phase cable not

Chevron	Summa	ry Report	Drill Drill and Suspend
	Carrina		Job Start Date: 11/23/2013
			Job End Date: 12/11/2013
Well Name	Lease	Field Name	Business Unit
	Vacuum Grayburg San Andres Unit	Vacuum	Mid-Continent Mud Line Elevation (ft) Water Depth (ft)
	4,003.50, 11/12/2013		
Drill 10 5/8" Intermediate Hole Section Fro		Com	
AROP= 99 FPH WOB = 11 Klbs			
RPM = 150			
Motor RPM = 203 GPM = 500			
SPP = 900 psi			
Torque =5-6 Kft*lbs			
Differential = 300 psi			
Report Start Date: 12/2/2013			
Drill 10 5/8" Intermediate Hole Section Fr		Com	
	-		
AROP= 132 FPH WOB = 15-20 Klbs			
RPM = 150			
Motor RPM = 154			
GPM = 700 SPP = 1000 psi			
Torque =6-7 Kft*lbs			
Differential = 300 psi			
Pump 2 40 bbl High Vis Sweeps & Circua	alte Hole Clean		
Monitor Well On Trip Tank For 30 Min, W	/ell Static		
TOH With 10 5/8 Intermediate Drilling As	sembly and L/D tools.		
PJSM, R/U H&P 8 5/8" external CRT		······································	
Troubleshoot HPU			
Report Start Date: 12/3/2013		-	
Continue troubleshooting HPU control fau		Com	
Top drive showed major fault, inverter in		H&P electrician & SLPC tech. Dis	scussion made to change out top drive
traction motor, wait on motor and mechan			
Report Start Date: 12/4/2013			
R&R T/D traction motor.		Com	
Report Start Date: 12/5/2013			· · · · · · · · · · · · · · · · · · ·
Report Start Date. 12/3/2013	· · · · · · · · · · · · · · · · · · ·	Com	
Top drive repairs	····		
Perform top drive and derrick inspection.	Ensure tools were cleared from work an	ea.	
Install trip nipple and master bushings, rig	g up tongs.		
Review JSA for running casing			
Make up float collar and shoe.			
Report Start Date: 12/6/2013		0	
Run 8 5/8" 32 # J55 Intermediate casing		Com	
	°		
Float shoe 2 joints			
Float collar			
81 Joints			
28 Cent.	·		
Review JSA for running casing with incor			
Run 8 5/8" 32 # J55 Intermediate casing	string as tollows:		
Float shoe			
2 joints			
Float collar 81 Joints			
28 Cent.			
Set hanger			
Review JSA for rigging up cement equip.			
Rig up cementers			
Review JSA pumping cement			
	P	age 3/7	Report Printed: 6/11/2014

Chevron	Summary Report	ا Drill and Suspo Job Start Date: 11/23/2 Job End Date: 12/11/2
Well Name VACUUM GRAYBURG SA UNIT 113	Lease Field Name Vacuum Grayburg San Andres Unit Vacuum	Business Unit Mid-Continent
Ground Elevation (ft) Original RKB (ft) 3,985.00 4,003.50	Current RKB Elevation 4,003.50, 11/12/2013	Mud Line Elevation (ft) Water Depth (ft) 0.00
		0.00
Perform cmt job as follows:	Com	·····
	s) Econocem-HLTRRC Lead cement at 12.9 ppg. ) Premium Plus Tail cement at 14.8 ppg. w/ 190 bbls of 10 ppg brine. nal circulating pressure.	
Details: Full returns throughout job Final circulation pressure prior to bumpi 30 bbls of cmt to surface Cmt in place at 17:04 hrs.	ng plug 800 psi at 3 bpm	
Set Weatherford ECP with 2100 psi	· · · · · · · · · · · · · · · · · · ·	
Test casing with Halliburton pumps, 150	00 psi for 30 min.	
Review JSA for R/D cmt equip. R/D CMT equip		
Back out of landing jt, wash up top of ha	anger L/D landing jt.	
Review JSA and R/D CRT		
Set packer & test to 1500 psi Report Start Date: 12/7/2013		
	Com	
Lay out BHA, strap & caliper same Install wearbushing & trip nipple	· · · · · · · · · · · · · · · · · · ·	
Held PJSM on picking up BHA, talked a	bout working in icy conditions	
Pick Up BHA#3 as follows: 7 7/8" Security MM55DM PDC bit 6.5" Motor (.16 rev/gal)		
TIH and tag cement at 3010'		
Circ hole with 10 ppg brine and perform Rig Service		
-	ck out water from gas buster to prevent from freezing	
Pull trip nipple & install rotating head		
Drl FE & Cmt from 3010' to 3210'.	son - TD intermediate section, ran casing)	
AROP = 33 fph		
WOB = 5-10 kips TD RPM = 30		
Motor RPM = 75 GPM = 469 ppg		
SPP = 1300 psi Diff psi= 120		
MVV = 10 ppg		
pH = 10		
Note: Pump 20 bbls of high vis sweeps every	3rd connection	
vvnile making a connection bolts on top	drive grabber block broke, replace bolts	
, ,		
	Page 4/7	Report Printed: 6/11

Chevron	Summa	ary Report	Drill Drill and Suspend Job Start Date: 11/23/2013 Job End Date: 12/11/2013
Well Name VACUUM GRAYBURG SA UNIT 113	Lease Vacuum Grayburg San Andres Unit	Field Name Vacuum	Business Unit Mid-Continent
Ground Elevation (ft) Original RKB (ft)	Current RKB Elevation 4,003.50, 11/12/2013		Mud Line Elevation (ft) Water Depth (ft) 0.00 0.00
	4,000.00, 11/12/2013		0.00
Drig f/ 3259' to 3440 ' AROP = 52 fph WOB = 5-10 kips TD RPM = 110 Motor RPM = 77 GPM = 500 ppg SPP = 1850 psi Diff psi= 140 MW = 9.8 ppg pH = 10		Com	·
Note: Pump 20 bbls of high vis sweeps every Raise mud property f/ 10 ppg clear brine			
Report Start Date: 12/8/2013			
Drlg f/ 3440 '- 3800' AROP = 65 fph WOB = 12-15 kips TD RPM = 110 Motor RPM = 77 GPM = 500 ppg SPP = 2450 psi Diff psi= 140 MW = 9.8 ppg pH = 10		Com	
Note: Pump 20 bbls of high vis sweeps every Raise mud property f/ 10 ppg clear brine	3rd connection to 11.2 brine mud at 3800+/-'		
Displace with 11 pound mud Drlg f/ 3800' - 4495' AROP = 41 fph WOB = 10-12 kips TD RPM = 110 Motor RPM = 77 GPM = 465 ppg SPP = 3150 psi Diff psi= 80 MW = 11 ppg pH = 10			
Note:		. ·	
Pump 20 bbls of high vis sweeps every Reduce WOB to control deviation	3rd connection		
Report Start Date: 12/9/2013	······································		
Drig f/ 4495' - 4615' AROP = 48 fph WOB = 10-12 kips TD RPM = 110 Motor RPM = 77 GPM = 465 ppg SPP = 3150 psi Diff psi= 80 MW = 11 ppg pH = 10		Com	
Note: Pump 20 bbls of high vis sweeps every Reduce WOB to control deviation	3rd connection		
Rig service, Replace packer			
		Page 5/7	Report Printed: 6/11/2014

Chevron	Summa	ry Report	Drill Drill and Suspend Job Start Date: 11/23/2013 Job End Date: 12/11/2013
Well Name VACUUM GRAYBURG SA UNIT 113	Lease Vacuum Grayburg San Andres Unit	Field Name Vacuum	Business Unit Mid-Continent
Ground Elevation (ft) Original RKB (ft)	Current RKB Elevation		Mud Line Elevation (ft) Water Depth (ft)
3,985.00 4,003.50	4,003.50, 11/12/2013		0.00 0.00
	······································	Com	
Drig f/ 4615' - 5130' AROP = 36 fph WOB = 10-12 kips TD RPM = 110 Motor RPM = 77 GPM = 465 ppg SPP = 3150 psi Diff psi= 80 MW = 11 ppg pH = 10			
Note: Pump 20 bbls of high vis sweeps every 3 Reduce WOB to control deviation	Brd connection		
Flowcheck,take final svy			
Circulate sweeps out of hole			
POOH wet to 4412 Pump slug			
POOH to 1430			
Report Start Date: 12/10/2013	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
TOH f/1430' to 739'. Hold SM with crew of		Com	
TOH & LD BHA, motor & bit.			
PJSM w/ H&P crew. R/U CRT, casing ru	nning and torque turn equipment.		
Run 5 1/2" 17# J-55 LTC csg to 4500':			
Float Shoe/Guide Shoe (auto fill)			
2 Shoe Jts Float Collar (auto fill)			
40 Joints			
Marker Joint 6 Joints			
ECP 60 Joints			
Report Start Date: 12/11/2013		Com	
Continue running 5.5" 17# J-55 production	on csg from 4500' to 5119'. Washing las	t 2 jts to bottom.	
Run 5 1/2" 17# J-55 LTC production csg	as follows:		
Float Shoe/Guide Shoe			
Float Collar			
40 Joints Marker Joint			
6 Joints ECP			
76 Joints			
Centralizer place 10' above FS, 10' abov Tag bottom at 5130' Casing shoe landed at 5119' Top of FC at 82'	re FC and one per jt to 1615'.		
Notified OCD at 2000 hrs on 12/09/2013	of intent to run and cmt csg.		
Washed csg f/ 5098' – 5119'. Broke circulation or cir b/u @ 5109'			
Lay down tag joint and land Hanger.			
PJSM on rig up & pump Halliburton Cem	ent & equipment.		
R/U Halliburton Cementers			

Chevron	Summary Report	Drill Drill and Suspend Job Start Date: 11/23/2013 Job End Date: 12/11/2013
Well Name VACUUM GRAYBURG SA UNIT 113	Lease Field Name . Vacuum Grayburg San Andres Unit Vacuum	Business Unit Mid-Continent
Ground Elevation (ft) Original RKB (ft)	Current RKB Elevation 4,003.50, 11/12/2013	Mud Line Elevation (ft) Water Depth (ft) 0.00 0.00
		· · · · · · · · · · · · · · · · · · ·
Pump Halliburton cement schedule.	Com	
Perform cmt job as follows: Pressure test lines to 4060 psi Pump 30 bbls of spacer at 12.3 ppg. Mix and pump 420 sxs (125 bbls) of Ecor Mix and pump 460 sxs (84 bbls) of Corro Drop top plug and displace cmt w/ 109 b Bump plug with 500 psi over final circula Bleed off pressure – floats held.	saCem of cement tail at 15.8 ppg. bls of Freshwater (Note: calculated amount was 116 Bbls of freshwater).	
Details: Full returns throughout job Final circulation pressure prior to bumpin 32 bbls of lead cmt to surface Cmt in place at 0535 hrs.	g plug 3820 psi at 2 bpm	
Review JSA & R/D Halliburton Cementer	'S	
Back out of landing jt.& Flush lines.		
Review JSA & R/D H&P's CRT tool.		
Set Backpressure valve and packoff. Tes PJSM with Mann welding nipple down cr		
Nipple down BOP		
Install tubing head. Torque and test to 5, Commence Cleaning pits, Release rig at		



## **Casing Summary**

'AC	Name UUM GRAYBURG SA Ind Elevation (ft) Original		Lease         Field Name         Business Unit           Vacuum Grayburg San Andres Unit         Vacuum         Mid-Continent           Current RKB Elevation         Mud Line Elevation (ft)         Wat					(ft) Water Dep	otb (#)			
<u> </u>	3,985.00		4,003.50, 11			-					0.00	0
	ace, Planned?-N, 1,5											
et D	epth (MD) (ftKB)	Set Tensi 1,526	on (kips)	String N	ominal OD (in)	11 3/4	String Min Drift (in)	Cer 10	tralizers		Scratchers	
lts	Item Des	OD (in)	ID (in)	Wt (ib/ft)	Grade	1	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collaps (psi)
36	Casing Joint	11 3/4	11.094	42.00	H-40	ST&C		-6	1,482	1,488.21		
1	Float Collar	11 3/4	11.094	42.00	H-40	ST&C	······································	1,482	1,483	1.11		
1	Casing Joint	11 3/4	11.094	42.00	H-40	ST&C	**	1,483	1,524	40.92		
1	Guide Shoe	11 3/4	11.094	42.00	H-40	ST&C		1,524	1,526	1.78		
	rmediate Casing 1, Pl											
et D	epth (MD) (ftKB)	Set Tensi 3,210	on (kips)	String N	ominal OD (in)	8 5/8	String Min Drift (in)	Cer 28	tralizers		Scratchers	
Its	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade		Fop Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collaps (psi)
1	Landing Joint	8 5/8	7.906	32.00		LT&C		16	34		T Buist (poi)	(1951)
1	Pup joint	8 5/8	7.906	32.00		LT&C		34	39	4.36		
36	Casing Joint	8 5/8	7.906	32.00	J-55	LT&C		39	1,438	1,399.64		
1	External Casing Packer	8 5/8	7.906	32.00	J-55	LT&C		1,438	1,463	24.55		
43	Casing Joint	8 5/8	7.906	32.00	J-55	LT&C		1,463	3,131	1,668.14		
1	Float Collar	8 5/8	7.906	32.00	J-55	LT&C		3,131	3,133	1.46		
2	Casing Joint	8 5/8	7.906	32.00	J-55	LT&C		3,133	3,208	75.89		
1	Float Shoe	8 5/8	7.906	32.00	J-55	LT&C		3,208	3,210	1.54		
'no	duction Casing, Planr	ned?-N, 5,119	ftKB									
et D	epth (MD) (ftKB)	Set Tensi 5,119	on (kips)	String N	ominal OD (in)	5 1/2	String Min Drift (in)	Cer 59	tralizers		Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade		Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collaps (psi)
	Landing Joint	5 1/2	4.892		0.000	LT&C		-1	18		T Durot (poi)	(poi)
1	Pup Joint	5 1/2	4.892	17.00	J-55	LT&C		18	21	3.34		
37	Casing Joint	5 1/2	4.892	17.00	J-55	LT&C		21	1,557	1,536.37		
1	Casing Joint	5 1/2	4.892	17.00	J-55	1		1,557	1,599	41.54		
	Casing Joint	5 1/2	4.892	17.00	J-55	LT&C		1,599	3,095			
1	ECP	5 1/2	4.892	17.00	J-55	LT&C		3,095	3,120	1		
6	Casing Joint	5 1/2	4.892	17.00	J-55	LT&C		3,120	3,369	249.29		
	Marker Joint	5 1/2	4.892	17.00	J-55	LT&C		3,369	3,379	9.67		
1	Casing Joint	5 1/2	4.892	17.00	J-55	LT&C		3,379	5,037	1,658.29		
	1 · · ·		4 000	17.00	J-55	LT&C		5,037	5,038	1.11		
	Float Collar	5 1/2	4.892	17,00	10-00	ILIUO		0,007	0,000			
40		5 1/2	4.892	17.00	J-55	LT&C	<u>_</u>	5,038	5,118			

### HOBBS OCD

JUN 1 6 2014

#### RECEIVED

8		·	Cer	nent	Sun	nmar HOB	<b>y</b> BS OCD	Pro	oduction Cas	sing Cemer
		Lease			Field Name					
VACUUM GRAYBURG SA Ground Elevation (ft) Origina	IRKB (ft)	Vacuum Gray	tion		Vacuum	- JUN	16201	4 Mid-Co Mud Line 1		er Depth (ft)
3,985.00	4,003.50	4,003.50, 11/1	2/2013						0.00	0.0
Original Hole						D	ECEIVEL	y		
Wellbore Name Original Hole		Directional Type Vertical			Kick Off Dept	h (ftKB)		Vertical Se	ction Direction (°)	
	Size (in)	Ventical		Act To	op (ftKB)			L	Act Btm (ftKB)	
		14 3/4					18.5			1,526.
		10 5/8					26.0			3,210.
VG-MB 226, Vetco Grey	00 12/11/2012	7 7/8				3,2	10.0			5,130.
Type	011 12/11/2013	11.00		····	Install Date					· · · · · ·
VG-MB 226	Mal	<u></u>		dol	· -	14/D (= =i)		12/11/2013	— <del>—                                   </del>	
Des					+	WP (psi)		Service		SN
Surface, Planned?-N, 1,										
Casing Description	Wellbore Original Hole		Run Date 11/29	/2013	Set Depth (N		Stick U	p (ftKB)	Set Tension (k 6.0	ips)
Centralizers				2010	Scratchers				0.0	
10		r		<u></u>	l	Top Conn Sz	r		Top Depth (MD)	Btm Depth (MD)
Jts Item De		OD (in)	ID (in)	Wt (lb/ft)	Grade	(in)	Top Thread	Len (ft)	(ftKB)	(ftKB)
36 Casing Joint 1 Float Collar		11 3/4 11 3/4	11.094	42.00			ST&C ST&C	1,488.21	-6 1,482	1,48 1,48
1 Casing Joint		11 3/4	11.094	42.00			ST&C	40.92	1,482	1,48
1 Guide Shoe		11 3/4	11.094	42.00			ST&C	1.78	1,524	1,52
ntermediate Casing 1, F	Planned?-N, 3,2	10ftKB				II	I			
Casing Description ntermediate Casing 1 Centralizers 28	Wellbore Original Hole		Run Date 12/6/	2013	Set Depth (M		Stick U 3,210	р (ftKB)	Set Tension (k -15.9	ips)
Jts Item De		OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1 Landing Joint		8 5/8	7.906	32.00			LT&C	18.50	16	3
1 Pup joint		8 5/8	7.906	32.00			LT&C	4.36	34	
36 Casing Joint		8 5/8	7.906	32.00	· .		LT&C	1,399.64	39	1,43
1 External Casing Pac 43 Casing Joint		8 5/8 8 5/8	7.906	32.00			LT&C LT&C	24.55	1,438	1,46
1 Float Collar		8 5/8	7.906	32.00			LT&C	1,000.14	3,131	3,13
2 Casing Joint		8 5/8	7.906	32.00			LT&C	75.89	3,133	3,20
1 Float Shoe		8 5/8	7.906	32.00	J-55		LT&C	1.54	3,208	3,21
Production Casing, Plan						L				
Casing Description Production Casing	Wellbore Original Hole		Run Date 12/11	/2013	Set Depth (N		5,119 Stick U	p (ftKB)	Set Tension (k 0.9	ips)
Centralizers					Scratchers					
59					<u>L</u> .	Top Conn Sz			Top Depth (MD)	Btm Depth (MD
Jts Item De		OD (in) 5 1/2	ID (in) 4.892	Wt (Ib/ft)	Grade	(in)	Top Thread	Len (ft) 18.50	(ftKB) 	(ftKB)
1 Pup Joint		5 1/2	4.892	17.00	J-55		LT&C	3.34	-1	
37 Casing Joint		5 1/2	4.892	17.00			LT&C	1,536.37	21	1,5
1 Casing Joint		5 1/2	4.892	17.00	J-55			41.54	1,557	1,5
36 Casing Joint		5 1/2	4.892	17.00			LT&C	1,495.94	1,599	3,0
1 ECP		5 1/2	4,892	17.00			LT&C	25.02	3,095	3,1
6 Casing Joint		5 1/2	4.892	17.00			LT&C	249.29	3,120	3,3
1 Marker Joint 40 Casing Joint		5 1/2	4.892	17.00			LT&C LT&C	9.67 1,658.29	3,369 3,379	3,3 5,0
		5 1/2	4.892	17.00			LT&C	1,030.29	5,037	5,0
		5 1/2	4.892	17.00			LT&C	79.53	5,038	5,1
1 Float Collar 2 Casing Joint		5 1/2	4.892	17.00			LT&C	1.35	5,118	5,1
1 Float Collar	·····	5 1/2				·			· · · · · · · · · · · · · · · · · · ·	·
1 Float Collar 2 Casing Joint 1 Float Shoe Production Casing Cem	ent, Casing, 12	//11/2013 04:0	0							
1       Float Collar         2       Casing Joint         1       Float Shoe         Production Casing Cem         Cementing Start Date		//11/2013 04:0			1/2013		Wellbo			····
1       Float Collar         2       Casing Joint         1       Float Shoe         Production Casing Cem         Cementing Start Date         12/1         Evaluation Method	1/2013	Cement Evaluation	0 Cementing End D	12/1	1/2013		Origi	ore nal Hole		<u></u>
1       Float Collar         2       Casing Joint         1       Float Shoe         Production Casing Cem         Cementing Start Date         12/1         Evaluation Method         Returns to Surface	1/2013	/11/2013 04:0	0 Cementing End D	12/1		eturn at surf	Origi			
1 Float Collar     2 Casing Joint     1 Float Shoe Production Casing Cem Cementing Start Date     12/1 valuation Method	1/2013	Cement Evaluation	0 Cementing End D	12/1		eturn at surf	Origi		· · · · · · · · · · · · · · · · · · ·	



# **Cement Summary**

#### **Production Casing Cement**

Well Name VACUUM GRAYBURG SA UNIT	Lease 113 Vacuum Gra	yburg San	Andrès Unit	Field Name Vacuum			ess Unit Continent		
Ground Elevation (ft) Original RKB (ft 3,985.00)				Mud L	ne Elevation (f	t) Water Depth (f 0.00	<sup>t)</sup> 0.00		
1, 18.5-5,119.0ftKB									
Top Depth (ftKB) 18.5		5,119.0	Full Return? Y	Vol Cement Ret (bbl) 32.0		Y	Bottom Plu	N	
Initial Pump Rate (bbl/min) 6	Final Pump Rate (bbl/min)	2	Avg Pump Rate (bbl/r	nin) 6	Final Pump Pr	essure (psi) 3,556		o Pressure (psi)	3,820.0
Pipe Reciprocated? N	Reciprocation Stroke Length	(ft)	Reciprocation Rate (s	pm)	Pipe Rotated?	N	Pipe RPM	(rpm)	
Depth Tagged (MD) (ftKB)	Tag Method		Depth Plug Drilled Ou	it To (ftKB)	Drill Out Diame	eter (in)	Drill Out D	ate	
Spacer	I						· · •		
Fluid Type	Fluid Description		Quantity (sacks)		Class		Volume Pi	umped (bbl)	
Spacer	Estimated Dattage Danth (fill)		Demont Current Durr		)(:-1-1/01(1))		Chief March	2-1	30.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftK	в)	Percent Excess Pump	5ed (%)	Yield (ft³/sack)		00	Ratio (gal/sack)	
Free Water (%)	Density (lb/gal)	12.30	Zero Gel Time (min)		Thickening Tin	ie (hr)	1st Compr	essive Strength (psi)	
Cement Fluid Additives									
Add			Ту	pe			Conc		470.07
Barite									173.37
D-Air									2.0
FE-2									0.35
Fresh Water									33.38
Surfactant									1.0
Lead									
Fluid Type Lead	Fluid Description		Quantity (sacks)	420	Class		Volume PL	umped (bbl)	125.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftK	B)	Percent Excess Pum		Tield (ft <sup>3</sup> /sack)		Eluid Mix F	Ratio (gal/sack)	125.0
18.5		4,600.0					58		8.43
Free Water (%)	Density (lb/gal)	13.20	Zero Gel Time (min)		Thickening Tin		1st Compr 00	essive Strength (psi)	324.0
Cement Fluid Additives									
Add			Ту	ре			Conc		
Fresh Water									
HR-601									0.3
KOL-SEAL POLY-E-FLAKE									
Tail Fluid Type	Fluid Description		Quantity (sacks)		Class		Volume Pr	umped (bbl)	
Tail				460	Н				84.0
Estimated Top (ftKB) 4,600.0	Estimated Bottom Depth (ftK	<sup>B)</sup> 5,119.0	Percent Excess Pum	ped (%)	Yield (ft³/sack)	1.	Fluid Mix F	Ratio (gal/sack)	3.53
Free Water (%)	Density (lb/gal)	15.80	Zero Gel Time (min)		Thickening Tin		1st Compr 00	essive Strength (psi)	1,038.0
Cement Fluid Additives		10.00			l				1,000.0
Add			• Ту	/pe			Conc		
CFR-3 (W/O DEFOAMER)									0.2
D-AIR									
FRESH WATER									
HALAD-322		İ				a.			0.4
KCL 3%									
KOL-SEAL									
LAP-1		· ·							1.0
POLY-E-FLAKE				· .					1.0
		1							

Chevron Directional Survey															
Well Name			Lease					Field Name			Business Unit				
VACUUM GF Ground Elevation		A UNIT 113	Vacuum Grayburg San Andres Unit				Vacuum			Mid-Continent Mud Line Elevation (ft) Water Depth (ft)					
	985.00		50 4,003.50,		3							.00		0.00	
Wellbore Name				Parent Wellbore				Kick Off Depth (ftKB)			Vertical Section Direction (*)				
Original Hole			Uriginal He	Original Hole				UTM Grid Zone							
	(1)			O TW Las											
Date 11/28/2013			Definitive?	Definitive?			Description			Planned? N					
MD Tie In (ftKB)							zimuth Tie In (°)	ISTie In (ft)							
Survey Data									·						
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey C	Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data	
250	0.20		250.00					Inc. Only			0.08			N	
500	0.20		500.00					Inc. Only			0.00			N	
750	0.70		749.99					Inc. Only			0.20			N	
835	0.90		834.99					Inc. Only			0.24			N	
924	1.30		923.99					Inc. Only			0.45			N	
1,012	1.90		1,011.99					Inc. Only			0.68			N	
1,073	2.50		1,072.99					Inc. Only			0.98			N	
1,526	4.00		1,525.94	·				Inc. Only	Rig		0.33			N	
1,578	4.10		1,577.94					Inc. Only			0.19			N	
1,760	3.60		1,759.94					Inc. Only			-0.27			N	
2,025	2.20		2,024.91					Inc. Only			-0.53			N	
2,520	2.60		2,519.91					Inc. Only			0.08			Ν	
3,021	2.00		3,020.90					Inc. Only			-0.12			N	
3,198	1.60		3,197.90					Inc. Only			-0.23			N	
3,484	1.70		3,483.90					Inc. Only			0.03			N	
3,845	2.60		3,844.88					Inc. Only			0.25			N	
3,980	3.20		3,979.88					Inc. Only			0.44			N	
4,115	3.80		4,114.88					Inc. Only			0.44			N	
4,204	3.90		4,203.88					Inc. Only			0.11			N	
4,292	3.70		4,291.88					Inc. Only			-0.23			N	
4,656	3.40		4,655.87					Inc. Only			-0.08			N	
4,744	2.60		4,743.87					Inc. Only			-0.91			Ň	
4,882	3.70		4,881.86					Inc. Only			0.80			N	
5,108	3.50		5,107.86					Inc. Only			-0.09			N	

#### HOBBS OCD

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